

Miller Chemical & Fertilizer Weekly Status Report

October 10 – October 16, 2015

Submitted on behalf of Miller Chemical & Fertilizer

October 20, 2015

Miller Chemical & Fertilizer, LLC

Weekly Report

Weekly Report (October 10, 2015 – October 16, 2015)

Weekly Highlights

- Miller Property—completed the work plan to reopen the storm water culvert leaving Miller's property and going under Radio Road with assistance from Conewago Enterprises. Miller will still be required to collect composite samples of storm water leaving Miller's site during rain events.
- The storm water retention basin on Miller's property was also re-opened and the flow is directed to the drainage swale along radio Road.
- Miller Property—the pit on Miller's property was backfilled. Any visibly impacted soils were removed and taken to Modern Landfill. Top soil was brought to the Miller site for use as clean fill to re-grade the distributed areas adjacent to the pits.
- Miller Property—completed the off-site transport and disposal of the storm water that was collected during the week of October 2, 2015. Nine (9) loads were taken to Pottstown from October 13, 2015 - October 16, 2015.
- Whisler Property—continued discussions with PADEP and the United States Army Corps of Engineers (USACE) regarding the permitting requirements for the preliminary restoration of the dry creek on the Whisler Property. A meeting has been scheduled for further discussion on October 20, 2015.
- Whisler Property—completed the preliminary restoration of the horseshoe trench and the storm water diversion trench. Please note that the pit and dry creek will not be restored until the permitting issues discussed above get resolved.
- Bare Development Property—the preliminary restoration of the area for the Rain for Rent storage tank is scheduled for the week of October 19, 2015.
- Miller Property, Bare Development Property and Whisler Property—received a site visit from the Adam's County Conservation District. WCD toured all sites with Deb Musselman, Resource Conservation Technician. Deb provided a few recommendations to the sediment control measures on the Whisler Property. Adam's County Conservation District recommendations were implemented on October 15 - 16, 2015.
- Miller Property—finalized the crushing of the Miller concrete slab. Any visibly impacted soil which is discovered will be removed and taken to Modern Landfill.
- As of October 19, 2015, five (5) frac tanks remain on Miller's property. Frac tanks will be cleaned returned and one (1) frac tank will be retained for any issues encountered during building construction activities.
- Met-Ed Site—the revised restoration plan for the Met-Ed substation was agreed to by Met-Ed representatives and Miller. Work was scheduled for the week of October 19, 2015; however, we are waiting for Stewart & Tate personnel to confirm the exact start date.
- Rain gauge with real-time monitoring working.

- In-stream monitoring probes for potassium, ammonium, and nitrates in Slagle Run working. Real-time access email alert system working.
- Ramboll Environ—the Ramboll Environ Act 2 Team is working on a revised sampling plan to reflect and incorporate all comments to the plan. The revised plan is undergoing internal review at Ramboll Environ. The revised sampling plan will need to be redistributed to all parties.
- Act 2 Process—an Act 2 meeting has been scheduled with PADEP and neighboring Agricultural property owners for November 3, 2015 at 10:00 AM at the Radio Hanover facility.
- Weekly report for October 9, 2015 distributed to PADEP and neighboring property owners.

Additional details follow for each of the points noted above.

Miller Chemical Incident
Weekly Status Report

MILLER CHEMICAL DISPOSAL VOLUME SUMMARY

As of October 16, 2015

MATERIAL DISPOSAL TOTALS—CUMULATIVE (From June 22 to October 16, 2015)

FACILITY	LOADS OUT	GALLONS	NOTES
Clean Harbors/Environmental Geo- Technologies (treatment of filtered water)	64	276,816	No Change
CycleChem (Solidification)	56	240,523	No Change
Derry field/pool	4	16,000	No Change
Derry—treated	8	33,100	No Change
Derry—untreated	27	157,997	No Change
ELK Environmental (Solidification)	22	28,084	No Change
ERC (Solidification)	59	294,380	No Change
Exeter—untreated	730	3,192,353	No Change
Exeter—treated	37	140,300	No Change
Kline's (Solidification)	42	252,000	No Change
Pottstown field/pool/Miller pits	429	1,726,687	
U.S. Environmental/Advanced Waste (Unfiltered Water)	22	130,200	No Change
Wayne Township (Solidification)	47	48,991	No Change
WRS (Solidification)	104	421,693	
TOTAL	1,624	6,844,404	

LANDFILL MATERIAL—ALL MATERIAL

Modern (Republic) debris/roll- offs/Miller soils	366	6,423 (est. tons)	
Waste Management—Miller soils	21	523 (est. tons)	No Change

MATERIAL DISPOSAL—WEEKLY—October 10 – October 16, 2015

Pottstown (untreated Miller Pit water)	9	45,422 gallons
WRS (Solidification)	2	5,972 gallons

LANDFILL MATERIAL—WEEKLY- October 10-October 16, 2015

Modern LF (Republic) Miller soils	50	1,000 (est. tons)
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OPERATIONAL SUMMARY

The storm water management efforts on the Miller Chemical and Agricultural properties have been discontinued, per formal approval from PADEP.

All frac tanks are empty and the remaining four (4) EPS frac tanks are scheduled for final cleaning and removal during the week of October 19, 2015. One (1) frac tank will be retained on site, under contract directly with Miller Chemical, should additional storm water or fire water collection be necessary during plant construction activities.

The Miller on-site pits have been backfilled and the adjacent disturbed area rough graded to maintain positive drainage toward the swale along Radio Road. Top soil and seed will be placed over the area during the week of October 19, 2015. The current soil erosion measures will be monitored and maintained by Conewago.

The storm water detention basin on the Miller property is currently dry. The outlet structure was re-opened on October 16, 2105 and the storm water flow to the drainage swale has been re-established. The storm water pipe running from the Miller property, under Radio Road into the Met-Ed substation, was re-opened on October 15, 2015. Any storm water resulting from future rain events will flow through the existing storm water collection system and discharged into the Agricultural fields, as it did prior to the plant fire.

SAMPLE RESULTS

Sample Type	Comments
Surface Runoff Water	<ul style="list-style-type: none">• Water samples collected October 5 from on-site drainage ditch in the northwest corner of the Miller site.• Composite storm water samples collected at off-site locations on the Whisler and Bare Development properties on October 5, 2015.
Stream Samples	<ul style="list-style-type: none">• Partial results for October 8 stream sampling received, tabulated, and attached to this report; TKN, TOC, and TOX results are pending.• Stream sampling conducted on October 15, 2015.
Untreated Frac Water	<ul style="list-style-type: none">• None.
Pool Water/Pit Water	
Precipitation Data	<ul style="list-style-type: none">• Less than 0.1 inches each day.
Soil/Other	

FIELD INSTRUMENTATION AND IN-STREAM MONITORING SUMMARY

- In-stream monitors for nitrate, ammonia, and potassium operating in Slagle Run and calibrated; telemetry running. Access to data provided to PADEP and others as of Friday, August 7, 2015. Monitors temporarily lost power over the weekend, likely due to the colder weather and decreased sunlight to recharge the batteries via solar panels.
- Rain gauge operating on Miller property; telemetry reporting.
- In-stream monitor for water quality parameters operating at NOMA intake.
- Ramboll Environ replaced and charged batteries for remote monitoring and sampling equipment, as necessary, and monitored system alerts.

OTHER TASKS COMPLETED

- Ramboll Environ provided general environmental oversight of ongoing activities.

PROGRESS—SOIL MANAGEMENT PLAN IMPLEMENTATION

Miller Property—Conewago Enterprises completed the demolition of the concrete slab on October 16, 2015. The crusher will be removed from the site on October 20, 2015. All visibly impacted concrete and sub-slab soil material have been removed and disposed of off site at Modern Landfill.

The on-site pits have been backfilled and the area graded to flow toward the drainage swale adjacent to Radio Road. The drainage swale, which had been blocked and preventing flow through the Met-Ed substation into the Agricultural fields has been re-opened. The Miller Property storm water collection system has been restored to pre-fire operating conditions.

Met-Ed Property—Miller and Met-Ed representatives agreed to revisions to the Preliminary Restoration Plan. Miller is awaiting confirmation of the start date for the revised work from Met-Ed.

Agriculture Properties—Restoration and backfilling of the interceptor trench and the horseshoe trench on the Whisler Property was completed on October 15, 2015. The adjacent disturbed areas have been re-graded to maintain positive drainage and minimize storm water ponding. The area will be seeded and covered with hay during the week of October 19, 2015. Final grading will occur after the restoration of the dry creek.

A representative from Adams County Soil Conservation District visited the Miller site and the Agricultural fields on October 13, 2015. The Adams County representative, Ms. Musselman, offered suggestions to improve the current soil erosion control measures and requested that the cover over the soil stock piles be adjusted and a few sections of silt fence be re-staked. The soil erosion and sediment control measures were addressed by WCD. Soil pile covers were adjusted and repairs to the silt fence completed on October 15, 2015.

Mr. Whisler continues to have questions and concerns related to the restoration of the dry creek. Mr. Whisler has communicated those concerns to the Army Corps of Engineers and PADEP. Further discussions among the regulatory agencies, the Miller Team and Mr. Whisler will be necessary to resolve the remaining open issues.

CSX property—no new activity.

York Health Corporation/Family First Health Property—no new activity.

OPEN ISSUES/COMMENTS

- Ramboll Environ has completed internal review of the Response to Comments for the Off-Site Act 2 Sampling and Analysis Plan and the revised SAP and anticipates re-submittal of the revised document during the week of October 19, 2015 following a regulatory meeting on October 20.
- Ramboll Environ is awaiting feedback from the Fish and Wildlife Service as to whether any protective measures will be needed during conduct of Act 2 sampling on the Family First Health property to protect potential bog turtle habitat located north of the Family First Health property.
- Ramboll Environ is awaiting feedback from USACE regarding whether a formal wetland delineation survey will be required for planned off-site activities and whether a permit will be necessary.

Surface Water Sampling Results (DRAFT VERSION reflecting data received to date - may be revised or updated)				Frac Water	Treated Frac Water	Treated Frac Water	On Site Pit	On-Site Pit	On Site Pit	On-Site Pit	On-Site Pit (Frac Tank)	On-Site Pit (Frac Tank)	On Site Pit	On-Site Pit	On Site Pit	On-Site Pit	On-Site Pit	On-Site Pit	On-Site Pit	
				6/9	6/19	7/20	6/30	6/30	7/12	7/12	8/20	8/20	9/10	9/10	9/17	9/17	9/24	9/24	10/1	10/1
Analyte	Cas No.	MCL (ug/L)	Lowest Benchmark** (ug/L)				Total Metals	Dissolved Metals	Total Metals	Dissolved Metals	Total Metals	Dissolved Metals	Total Metals	Dissolved Metals	Total Metals	Dissolved Metals	Total Metals	Dissolved Metals	Total Metals	Dissolved Metals
Aluminum	7429-90-5	200	87	-	610000	8300	1000	100	830	340	15000	9900	13000	690	540	80	165	ND	3800	430
Antimony	7440-36-0	6	5.6	80.6	ND	ND	7.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	7440-38-2	10	0.02	170 to 404	51	5.1	26	16	15	7	13	12	14	10	11	11	12	12	16	17
Barium	7440-39-3	2000	4	ND to 257	25	9.4	28	2.1	13	2.7	94	77	56	17	11	0.67	2.4	ND	33	19
Beryllium	7440-41-7	4	0.66	ND	ND	ND	ND	ND	ND	ND	0.99	0.63	0.53	ND	ND	ND	ND	ND	ND	ND
Cadmium	7440-43-9	5	0.25	ND to 14	2	ND	4.2	0.5	1.6	ND	1.6	1.6	1	0.56	1.4	1.4	0.745	ND	2.4	2.4
Calcium	7440-70-2	-	116000	-	-	8000	-	-	55000	-	40000	-	94000	-	100000	-	76000	-	57000	-
Chromium	7440-47-3	100	85	-	17	1.6	5.1	3.3	4.1	3	31	14	12	2.2	1.7	0.82	1.1	ND	9	2.7
Cobalt	7440-48-4	-	19	-	100	670	780	800	910	820	140	130	330	300	760	800	815	875	280	300
Copper	7440-50-8	1000	9	110000	200	8.5	1400	63	370	40	400	330	370	66	63	3.8	29	5.4	920	700
Iron	7439-89-6	300	300	-	1600	20000	29000	28000	31000	29000	20000	6100	27000	18000	22000	19000	8100	6850	8000	3500
Lead	7439-92-1	5	2.5	60 to 148	29	8.7	130	61	46	5.9	39	31	23	7.9	25	11.5	10	62	55	
Magnesium	7439-95-4	-	-	-	-	3100	-	-	16000	-	11000	-	27000	-	30000	-	38000	-	14000	-
Manganese	7439-96-5	50	50	-	4800	7000	22000	22000	15000	14000	2600	2700	4100	3500	8500	8700	7450	7350	3300	3000
Mercury	7439-97-6	2	0.026	ND	0.37	ND	ND	ND	ND	ND	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND
Molybdenum	7439-98-7	-	73	-	-	-	-	-	-	-	-	-	27	24	48	50	59	52.5	78	73
Nickel	7440-02-0	-	52	124	40	140	130	150	140	150	66	53	95	86	160	140	205	175	100	110
Potassium	7440-09-7	-	53000	-	26000	310000	300000	290000	270000	230000	68000	70000	140000	150000	190000	190000	215000	200000	72000	80000
Selenium	7782-49-2	50	1	ND to 99.7	ND	1.6	ND	0.62	0.57	ND	0.56	ND	ND	ND	ND	0.52	0.565	ND	0.62	ND
Silver	7440-22-4	100	3.2	ND to 24.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sodium	7440-23-5	-	680000	-	3500000	1200000	110000	110000	90000	94000	32000	33000	46000	43000	68000	74000	77000	73500	34000	36000
Thallium	7440-28-0	2	0.24	23.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	7440-66-6	5000	120	429000	3600	530	16000	14000	3200	350	1400	1400	1300	510	970	880	1100	860	2800	2600
Sulfate	14808-79-8	250000	250000	-	-	2100000	172000	-	91000	-	50000	-	83000	-	85000	-	105000	-	120000	-
Chloride	16887-00-6	250000	230000	-	-	260000	-	-	81000	-	22000	-	76000	-	97000	-	100000	-	38000	-
Phosphorus, Total (as P)	7723-14-0	-	-	1850000	-	3800	73000	-	53000	-	8100	-	30000	-	27000	-	10000	-	6800	-
Ortho-Phosphate (as P)	7723-14-0	-	-	-	-	890	30500	-	35000	-	5500	-	21000	-	14000	-	8450	-	6300	-
Nitrogen, Ammonia (as N)	7664-41-7	-	19	-	-	110000	94000	-	60000	-	11000	-	39000	-	44000	-	26000	-	8500	-
Nitrite (as N)	14797-65-0	1000	20	70800	-	160	ND	-	660	-	1100	-	ND	-	ND	-	4650	-	3500	-
Nitrate (as N)	14797-55-8	10000	10000	879000	-	ND	ND	-	580	-	4800	-	ND	-	ND	-	ND	-	15000	-
Nitrogen, Nitrate-Nitrite	C-005	10000	10000	950000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrogen, Total Kjeldahl	7727-37-9	-	-	2260000	-	-	141000	-	81900	-	20000	-	-	-	52500	-	58650	-	21200	-
Total Organic Carbon	7440-44-0	-	-	-	-	-	287000	-	229000	-	49500	-	-	-	132000	-	111500	-	59600	-
Alkalinity, Total (CaCO3)	ALK	-	-	-	-	-	520000	770000	-	670000	-	160000	-	530000	-	640000	-	600000	-	
Chemical Oxygen Demand	COD	-	-	18000000	-	500000	810000	-	600000	-	320000	-	260000	-	350000	-	300000	-	150000	-
Total Dissolved Solids	TDS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (TOX)	TOX	-	-	798	-	-	60.7	-	18.4	-	14.9	-	-	-	19.9	-	25.7	-	63.1	-
Temperature (°C)	-	-	-	-	-	-	-	-	30.10	-	-	-	20.99	-	29.8	-	15.76	-	17.43	-
pH (Std units)	C-006	6.5	6.5	6.1	-	-	-	-	7.93	-	-	-	7.74	-	7	-	8.66	-	7.59	-
ORP (mV)	-	-	-	-	-	-	-	-	-186	-	-	-	-140							

Yellow results are above lowest benchmark

Green, bold results are above the MCL

"—" means not sampled or not received

** Benchmarks include PADEP ambient water quality and human health

criteria for surface water. USEPA Region 3 freshwater benchmarks for

ecological risk, and drinking water MCLs.

ecological risk, and drinking water. WISE

Surface Water Sampling Results (DRAFT VERSION reflecting data received to date - may be revised or updated)				Pool Water	Pool Water	Horseshoe Trench	Horseshoe Trench	Horseshoe Trench - EPS	Horseshoe Trench	Horseshoe Trench	Horseshoe Trench										
		8/6	8/6	8/13	8/13	8/20	8/20	8/27	8/27	9/3	9/3	9/10	9/10	9/15	6/24	6/24	6/27	6/27	6/30	6/30	
Analyte	Cas No.	MCL (ug/L)	Lowest Benchmark** (ug/L)	Total Metals	Dissolved Metals	-	Total Metals	Dissolved Metals	Total Metals	Dissolved Metals	Total Metals	Dissolved Metals									
Aluminum	7429-90-5	200	87	210	ND	220	ND	78	ND	65	ND	110	ND	710	ND	450	ND	15000	505	1300	ND
Antimony	7440-36-0	6	5.6	ND	ND	ND	ND	ND	ND	ND	ND	ND									
Arsenic	7440-38-2	10	0.02	5.1	5.2	5.6	4.7	5	5.4	6.5	6.4	5.4	6	5.7	5.6	-	12	8.3	3.2	3.4	3.9
Barium	7440-39-3	2000	4	17	7.7	12	5.2	20	14	19	9.6	18	11	15	9.7	-	58	25	160	31	39
Beryllium	7440-41-7	4	0.66	ND	ND	ND	ND	-	ND	ND	1.3	ND	ND								
Cadmium	7440-43-9	5	0.25	0.65	0.56	0.52	ND	ND	ND	0.59	0.57	ND	ND	ND	ND	-	4	ND	ND	3.4	2.1
Calcium	7440-70-2	-	116000	43000	-	48000	-	48000	-	47000	-	51000	-	54000	-	-	-	-	-	-	-
Chromium	7440-47-3	100	85	ND	ND	0.52	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	15	0.73	1.5
Cobalt	7440-48-4	-	19	150	160	160	150	130	130	110	120	93	110	110	100	-	310	300	23	175	160
Copper	7440-50-8	1000	9	19	9.1	18	6.6	8.3	5.7	22	17	12	9	11	6.6	-	62	13	20	33.5	29
Iron	7439-89-6	300	300	430	75	380	ND	760	370	620	110	550	120	700	260	-	6800	3600	12000	1300	1900
Lead	7439-92-1	5	2.5	1.7	0.88	1.1	0.62	0.82	0.68	2.1	1.4	1.4	0.8	1.3	0.98	-	52	27	20	22.5	18
Magnesium	7439-95-4	-	-	11000	-	12000	-	11000	-	9700	-	11000	-	11000	-	-	-	-	-	-	-
Manganese	7439-96-5	50	50	990	460	810	240	970	750	890	460	810	470	1000	770	-	3400	3400	660	1200	560
Mercury	7439-97-6	2	0.026	ND	ND	ND	ND	-	ND	ND	ND	ND	ND								
Molybdenum	7439-98-7	-	73	-	-	-	-	-	-	-	-	-	-	12	11	-	-	-	-	-	-
Nickel	7440-02-0	-	52	71	73	83	71	79	76	75	77	73	80	80	72	-	77	76	15	53.5	41
Potassium	7440-09-7	-	53000	16000	15000	17000	14000	15000	15000	17000	16000	18000	16000	18000	17000	-	28000	28000	3000	6250	8100
Selenium	7782-49-2	50	1	ND	ND	ND	ND	-	ND	ND	ND	0.54	ND								
Silver	7440-22-4	100	3.2	ND	ND	ND	ND	-	ND	ND	ND	ND	ND								
Sodium	7440-23-5	-	680000	18000	17000	20000	16000	19000	19000	17000	18000	19000	17000	19000	17000	-	23000	22000	1600	12000	13000
Thallium	7440-28-0	2	0.24	ND	ND	ND	ND	-	ND	ND	ND	ND	ND								
Zinc	7440-66-6	5000	120	95	80	80	61	60	56	150	140	110	110	94	97	-	610	440	110	245	200
Sulfate	14808-79-8	250000	250000	11000	-	8600	-	7200	-	11000	-	10000	-	9200	-	-	30400	-	-	23700	23900
Chloride	16887-00-6	250000	230000	26000	-	26000	-	26000	-	24000	-	25000	-	25000	-	-	-	-	-	-	-
Phosphorus, Total (as P)	7723-14-0	-	-	1100	-	1200	-	2100	-	1400	-	1900	-	2100	-	-	5600	-	490	1000	1100
Ortho-Phosphate (as P)	7723-14-0	-	-	540	-	850	-	1400	-	1200	-	1600	-	1900	-	-	900	-	200	560	-
Nitrogen, Ammonia (as N)	7664-41-7	-	19	ND	-	ND	-	-	7100	-	210	1200	700								
Nitrite (as N)	14797-65-0	1000	20	ND	-	ND	-	-	ND	-	160	360	-								
Nitrate (as N)	14797-55-8	10000	10000	ND	-	ND	-	-	60	-	640	560	-								
Nitrogen, Nitrate-Nitrite	C 005	10000	10000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrogen, Total Kjeldahl	7727-37-9	-	-	4800	-	4200	-	3500	-	1100	-	2900	-	3200	-	-	11300	-	2400	5700	3100
Total Organic Carbon	7440-44-0	-	-	23800	-	19300	-	20300	-	23600	-	22600	-	21300	-	-	54600	-	6600	32800	13300
Alkalinity, Total (CaCO3)	ALK	-	-	150000	-	140000	-	180000	-	140000	-	220000	-	230000	-	-	300000	-	-	170000	200000
Chemical Oxygen Demand	COD	-	-	78000	-	66000	-	83000	-	81000	-	65000	-	60000	-	-	140000	-	33000	45000	37000
Total Dissolved Solids	TDS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (TOX)	TOX	-	-	125	-	25.4	-	23.2	-	14.2	-	17.4	-	15.4	-	-	23.8	-	-	ND	ND
Temperature (°C)		-	-	26.97	-	27.36	-	27.30	-	28.16	-	28.06	-	22.79	-	-	31.87	-	-	18.4	27.16
pH (Std units)	C-006	6.5	6.5	9.4	-	9.43	-	9.10	-	9.96	-	9.36	-	9.04	-	-	7.51	-	-	7.61	7.99
ORP (mV)		-	-	109	-	150	-	142	-	134	-	134	-	157	-</td						

Surface Water Sampling Results (DRAFT VERSION reflecting data received to date - may be revised or updated)				Horseshoe Trench	Horseshoe Trench	Horseshoe Trench	Horseshoe Trench	Creek Pit	Creek Pit	Creek Pit - EPS	Creek Pit	Creek Pit	Creek Pit													
				8/20	8/20	10/1	10/1	6/24	6/24	6/27	6/27	6/30	6/30	7/9	7/9	7/12	7/12	7/12	7/24	7/24	7/30	7/30	8/6	8/6	8/13	
Analyte	Cas No.	MCL (ug/L)	Lowest Benchmark** (ug/L)	Total Metals	Dissolved Metals	Total Metals	Dissolved Metals	Total Metals	Dissolved Metals	Total Metals	Dissolved Metals	Total Metals	Dissolved Metals	Total Metals	Dissolved Metals	Total Metals	Dissolved Metals	Total Metals	Dissolved Metals	Total Metals	Dissolved Metals	Total Metals	Dissolved Metals	Total Metals	Dissolved Metals	Total Metals
Aluminum	7429-90-5	200	87	19000	2800	1400	ND	410	ND	15000	ND	360	ND	680	ND	79	ND	390	ND	200	ND	550	270	160		
Antimony	7440-36-0	6	5.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Arsenic	7440-38-2	10	0.02	2.8	1.7	6.9	7.4	12	7.9	6.5	5.85	5.4	4.5	10	8.6	3.7	3.5	5.7	4.4	11	9.1	11	11	4.6		
Barium	7440-39-3	2000	4	180	96	24	16	50	17	180	19.5	37	22	43	18	31	19	35	31	37	28	40	31	29		
Beryllium	7440-41-7	4	0.66	1.3	0.6	ND	ND	ND	ND	1.6	ND	ND														
Cadmium	7440-43-9	5	0.25	1.3	1.4	1	1	3.8	2.1	1.6	1.45	2	1.5	1	0.79	0.91	ND	1.5	1.3	1.1	1	ND	ND	0.71		
Calcium	7440-70-2	-	116000	27000	-	23000	-	-	-	-	-	-	-	83000	-	82000	-	76000	-	81000	-	69000	-	78000		
Chromium	7440-47-3	100	85	22	1.7	2.6	ND	ND	ND	14	ND	ND	ND	1.3	ND	ND	ND	0.56	ND	ND	ND	0.92	ND	ND		
Cobalt	7440-48-4	-	19	58	61	50	49	330	310	67	305	200	200	230	220	230	230	180	170	210	210	110	120	94		
Copper	7440-50-8	1000	9	36	29	72	72	75	9.9	59	9.6	29	16	24	8.9	15	12	12	10	13	10	6.9	3.8	6.9		
Iron	7439-89-6	300	300	17000	1500	1900	390	7100	3900	13000	3150	2700	1600	4900	2100	2500	720	870	81	1500	430	1200	470	220		
Lead	7439-92-1	5	2.5	24	11	5.6	4.2	36	23	30	16	18	13	13	9.6	7.4	5	6.5	5.2	5.6	3.4	1.8	0.85	1.7		
Magnesium	7439-95-4	-	-	6500	-	3800	-	-	-	-	-	-	-	12000	-	11000	-	10000	-	11000	-	11000	-	12000		
Manganese	7439-96-5	50	50	240	160	66	48	4500	4200	1300	3800	1900	1900	3200	2700	2600	2400	820	980	1900	1700	1200	1200	210		
Mercury	7439-97-6	2	0.026	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Molybdenum	7439-98-7	-	73	-	-	9.4	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Nickel	7440-02-0	-	52	59	50	35	36	86	82	28	89	55	57	76	68	72	76	85	80	84	78	89	97	120		
Potassium	7440-09-7	-	53000	3600	2900	16000	15000	30000	28000	10000	22500	13000	12000	17000	18000	12000	10000	6700	7000	10000	9200	10000	11000	8800		
Selenium	7782-49-2	50	1	ND	ND	ND	ND	ND	ND	ND	ND to 0.56	ND	ND	ND												
Silver	7440-22-4	100	3.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Sodium	7440-23-5	-	680000	4100	4500	6500	7100	26000	23000	5500	21000	15000	14000	16000	18000	16000	17000	17000	17000	13000	15000	20000	20000	22000		
Thallium	7440-28-0	2	0.24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Zinc	7440-66-6	5000	120	97	76	200	280	580	570	320	345	230	200	160	140	95	80	87	75	180	170	45	51	54		
Sulfate	14808-79-8	250000	250000	12000	-	24000	-	31200	-	-	25300	24200	-	16000	-	16000	-	22700	-	40000	-	21000	-	25000		
Chloride	16887-00-6	250000	230000	ND	-	7200	-	-	-	-	24000	-	24000	-	26000	-	34700	-	28000	-	33000	-	34000			
Phosphorus, Total (as P)	7723-14-0	-	-	420	-	2000	-	6300	-	2400	4900	2300	-	4000	-	1200	-	540	-	1100	-	910	-	330		
Ortho-Phosphate (as P)	7723-14-0	-	-	52	-	1900	-	3900	-	1300	1400	-	3100	-	790	-	320	-	800	-	620	-	110			
Nitrogen, Ammonia (as N)	7664-41-7	-	19	130	-	150	-	9400	-	1500	7200	2800	-	4900	-	3000	-	1200	-	1100	-	ND	-			
Nitrite (as N)	14797-65-0	1000	20	ND	-	320	-	ND	-	ND	200	-	ND													
Nitrate (as N)	14797-55-8	10000	10000	5200	-	4700	-	ND	-	ND	320	-	350	-	590	-	120	-	ND	-	ND	-	ND			
Nitrogen, Nitrate+Nitrite	C 005	10000	10000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Nitrogen, Total Kjeldahl	7727-37-9	-	-	2300	-	2500	-	15400	-	1400	7200	7100	-	10100	-	6600	-	5000	-	4900	-	3700	-	2100		
Total Organic Carbon	7440-44-0	-	-	9400	-	4400	-	52500	-	14400	36600	17700	-	28700	-	17700	-	11500	-	20900	-	20500	-	40400		
Alkalinity, Total (CaCO3)	ALK																									

Surface Water Sampling Results (DRAFT VERSION reflecting data received to date - may be revised or updated)				Creek Pit	Creek Pit	Runoff	Runoff	Storm Water 1	Storm Water 1	Storm Water 2	Storm Water 2	Storm Water 4											
				8/13	8/20	8/20	8/27	8/27	9/10	9/10	9/17	9/17	10/1	10/1	10/8	10/8	6/19	6/19	6/27	6/27			
Analyte	Cas No.	MCL (ug/L)	Lowest Benchmark** (ug/L)	Dissolved Metals	Total Metals	Dissolved Metals	Total Metals																
Aluminum	7429-90-5	200	87	86	1100	260	140	ND	5800	170	700	ND	470	ND	56	ND	760	ND	350	290	140	80	79
Antimony	7440-36-0	6	5.6	ND	ND	ND	6.4	ND	ND	ND	ND	ND	ND	ND									
Arsenic	7440-38-2	10	0.02	4.3	3.3	3.4	16	15	9.4	9.2	4.6	4	16	17	1.7	1.3	38	37	140	100	15	11	ND
Barium	7440-39-3	2000	4	28	32	27	45	39	96	48	42	28	36	31	45	46	34	21	19	4.8	47	21	13
Beryllium	7440-41-7	4	0.66	ND	ND	ND	ND	ND	ND	ND													
Cadmium	7440-43-9	5	0.25	0.73	0.59	0.58	6.3	6.7	ND	ND	ND	ND	2.8	2.9	4.2	4.6	13	13	10	2.8	2.9	1.4	ND
Calcium	7440-70-2	-	116000	-	62000	-	75000	-	77000	-	56000	-	59000	-	91000	-	-	-	-	-	-	-	
Chromium	7440-47-3	100	85	ND	1.5	ND	0.72	0.5	8.9	ND	1.1	ND	1.4	ND	ND	ND	3.6	ND	2.1	2.1	0.82	0.7	0.52
Cobalt	7440-48-4	-	19	92	63	64	150	150	81	73	50	42	140	150	210	250	340	340	490	500	460	440	ND
Copper	7440-50-8	1000	9	5.9	8.6	7.8	110	100	15	3.3	13	8.5	150	150	55	60	3700	2800	460	150	73	22	4.2
Iron	7439-89-6	300	300	74	1200	230	1300	690	6900	210	770	ND	1400	660	780	230	14000	12000	18000	16000	12000	9300	190
Lead	7439-92-1	5	2.5	1.4	2.2	1.3	14	9.9	7.4	0.86	1.6	0.65	8.9	7.5	11	12	140	130	120	60	27	18	ND
Magnesium	7439-95-4	-	-	-	9900	-	9300	-	12000	-	7800	-	8200	-	11000	-	-	-	-	-	-	-	
Manganese	7439-96-5	50	50	180	280	210	1500	1500	2600	1900	280	120	71	39	730	700	19000	19000	4600	4300	5300	5400	38
Mercury	7439-97-6	2	0.026	ND	ND	ND	ND	ND	ND	ND													
Molybdenum	7439-98-7	-	73	-	-	-	-	-	14	28	15	15	20	19	2.2	2.5	-	-	-	-	-	-	
Nickel	7440-02-0	-	52	110	120	130	130	140	150	140	120	110	96	100	140	150	59	60	160	170	140	130	0.53
Potassium	7440-09-7	-	53000	8000	6600	6800	31000	28000	17000	15000	12000	12000	27000	25000	7900	8100	180000	180000	130000	120000	47000	47000	1100
Selenium	7782-49-2	50	1	ND	ND	ND	0.58	0.61	0.52	ND	ND	ND	0.54	ND	ND	ND	ND	ND	0.86	1.3	0.8	0.89	ND
Silver	7440-22-4	100	3.2	ND	ND	ND	ND	ND	ND	ND													
Sodium	7440-23-5	-	680000	20000	18000	19000	27000	26000	23000	21000	16000	17000	18000	16000	18000	18000	81000	88000	61000	59000	31000	32000	48000
Thallium	7440-28-0	2	0.24	ND	ND	ND	ND	ND	ND	ND													
Zinc	7440-66-6	5000	120	53	38	37	690	730	77	40	44	41	410	1000	120	120	24000	23000	1700	1300	450	470	69
Sulfate	14808-79-8	250000	250000	-	22000	-	75000	-	26000	-	21000	-	57000	-	39000	-	-	-	36000	-	18900	-	7400
Chloride	16887-00-6	250000	230000	-	30000	-	20000	-	21000	-	15000	-	16000	-	27000	-	-	-	-	-	-	-	-
Phosphorus, Total (as P)	7723-14-0	-	-	-	240	-	1200	-	570	-	480	-	2700	-	150	-	120000	-	54000	-	13000	-	60
Ortho-Phosphate (as P)	7723-14-0	-	-	-	100	-	890	-	290	-	80	-	2500	-	72	-	-	-	3900	-	8300	-	23
Nitrogen, Ammonia (as N)	7664-41-7	-	19	-	200	-	120	-	ND	-	ND	-	110	-	170	-	-	-	21000	-	16000	-	ND
Nitrite (as N)	14797-65-0	1000	20	-	ND	-	ND	-	ND	-	ND	-	560	-	ND	-	-	-	ND	-	ND	-	ND
Nitrate (as N)	14797-55-8	10000	10000	-	610	-	ND	-	ND	-	ND	-	13000	-	2700	-	-	-	ND	-	ND	-	580
Nitrogen, Nitrate-Nitrite	C 005	10000	10000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nitrogen, Total Kjeldahl	7727-37-9	-	-	-	2300	-	4800	-	6100	-	3200	-	4300	-	-	-	173000	-	63300	-	32900	-	ND
Total Organic Carbon	7440-44-0	-	-	-	13100	-	56800	-	32400	-	23200	-	38100	-	-	-	319000	-	280000	-	99700	-	8100
Alkalinity, Total (CaCO ₃)	ALK	-	-	-	180000	-	170000	-	260000	-	180000	-	130000	-	220000	-	-	-	500000	-	510000	-	85000
Chemical Oxygen Demand	COD	-	-	-	52000	-	170000	-	100000	-	70000	-	110000	-	28000	-	840000	-	980000	-	330000	-	28000
Total Dissolved Solids	TDS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total Organic Halides (TOX)	TOX	-	-	-	15																		

Surface Water Sampling Results (DRAFT VERSION reflecting data received to date - may be revised or updated)				Storm Water 4	Storm Water 5	Storm Water 5	Storm Water 6	Storm Water 6	Storm Water DS	Storm Water DS	Storm Water US	Storm Water US	Storm Water DS	Storm Water DS	Storm Water MetEd	Storm Water MetEd	Storm Water Wetland	Storm Water Wetland	Storm Water US	Storm Water DS	Storm Water DS
				6/27	6/27	6/27	6/27	6/27	7/22	7/22	7/28	7/28	7/28	7/28	7/28	7/28	8/20	8/20	8/20	8/21	8/21
Analyte	Cas No.	MCL (ug/L)	Lowest Benchmark** (ug/L)	Dissolved Metals	Total Metals	Dissolved Metals	Total Metals	Dissolved Metals	Total Metals	Dissolved Metals	Total Metals	Dissolved Metals	Total Metals	Dissolved Metals	Total Metals	Dissolved Metals	Total Metals	Total Metals	Total Metals	Dissolved Metals	
Aluminum	7429-90-5	200	87	ND	480	ND	150	ND	ND	ND	210	110	230	ND	180	77	470	120	160	560	ND
Antimony	7440-36-0	6	5.6	ND	3.3	3.4	ND	ND	ND	ND	3.3	ND	ND	ND	7.7	6.8	5.1	4.5	24	ND	ND
Arsenic	7440-38-2	10	0.02	ND	0.53	0.56	ND	ND	3.6	2.4	330	330	20	17	120	120	73	77	110	26	27
Barium	7440-39-3	2000	4	8.3	30	24	12	8.5	36	30	85	24	47	37	18	15	17	15	23	38	32
Beryllium	7440-41-7	4	0.66	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Cadmium	7440-43-9	5	0.25	ND	ND	ND	ND	ND	1.1	ND	10	2.3	3.3	3.5	9.5	9.9	8.7	9.2	18	6.1	6.2
Calcium	7440-70-2	-	116000	-	-	-	-	-	84000	-	130000	-	85000	-	120000	-	76000	-	170000	73000	-
Chromium	7440-47-3	100	85	0.57	2.2	1.2	11	9.5	ND	ND	2.7	2.2	0.57	ND	1.4	0.97	2.3	1.5	2	2.3	1.2
Cobalt	7440-48-4	-	19	ND	0.52	ND	ND	ND	190	180	890	870	260	270	290	280	190	180	450	200	190
Copper	7440-50-8	1000	9	1.8	3.9	2.2	3.8	1.3	14	12	330	87	72	61	950	920	360	700	880	350	320
Iron	7439-89-6	300	300	55	650	ND	270	ND	1800	820	30000	20000	2300	1500	3100	2800	2700	2300	3500	2400	1700
Lead	7439-92-1	5	2.5	ND	3.3	ND	1.1	ND	7.2	4.8	77	34	18	15	31	27	33	31	52	23	21
Magnesium	7439-95-4	-	-	-	-	-	-	-	10000	-	24000	-	11000	-	25000	-	11000	-	21000	13000	-
Manganese	7439-96-5	50	50	20	47	12	18	5	2700	2300	5200	3800	2300	2600	1300	1200	1100	900	1100	880	1000
Mercury	7439-97-6	2	0.026	0.1	ND	ND	ND	ND	ND	ND	0.12	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Molybdenum	7439-98-7	-	73	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nickel	7440-02-0	-	52	ND	0.92	ND	ND	ND	57	54	310	310	96	89	220	200	140	130	360	120	120
Potassium	7440-09-7	-	53000	700	1800	1800	230	230	6400	6200	120000	120000	16000	17000	91000	70000	34000	63000	67000	59000	34000
Selenium	7782-49-2	50	1	ND	ND	ND	ND	ND	ND	ND	1.4	1.5	ND	ND	1.9	2	1.2	1.1	1.4	0.59	0.66
Silver	7440-22-4	100	3.2	ND	ND	ND	ND	ND	ND	ND	0.63	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Sodium	7440-23-5	-	680000	27000	17000	16000	2400	3700	18000	17000	68000	68000	20000	22000	60000	42000	25000	34000	40000	32000	25000
Thallium	7440-28-0	2	0.24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.54	ND	ND	ND	ND	ND	
Zinc	7440-66-6	5000	120	53	31	17	94	72	90	76	4500	2800	920	870	5300	2800	1300	2800	2600	2600	1400
Sulfate	14808-79-8	250000	250000		8700		560		20000		280000		71000		170000		110000		230000	77000	
Chloride	16887-00-6	250000	230000		-		-		33000		44000		33000		20000		17000		34000	23000	
Phosphorus, Total (as P)	7723-14-0	-	-		63		ND		540		16000		1000		8500		7100		5400	3400	
Ortho-Phosphate (as P)	7723-14-0	-	-		20		30		280		13000		580		7800		6400		4600	3000	
Nitrogen, Ammonia (as N)	7664-41-7	-	19		ND		ND		2600		26000		4000		1100		1500		390	1100	
Nitrite (as N)	14797-65-0	1000	20		ND		ND		ND		170		280		4100		2600		7800	1600	
Nitrate (as N)	14797-55-8	10000	10000		1100		140		ND		ND		330		44000		21000		20000	13000	
Nitrogen, Nitrate-Nitrite	C 005	10000	10000		-		-		-		-		-		-		-		-	-	
Nitrogen, Total Kjeldahl	7727-37-9	-	-		400		500		4400		71600		9600		17400		13100		-	8400	
Total Organic Carbon	7440-44-0	-	-		6800		3100		8500		236000		35100		142000		119000		150000	58500	
Alkalinity, Total (CaCO3)	ALK	-	-		160000		24000		260000		470000		290000		130000		130000		-	170000	
Chemical Oxygen Demand	COD	-	-		ND		ND		ND		790000		95000		450000		380000		480000	190000	
Total Dissolved Solids	TDS	-	-		-		-		-		-		-		-		-	-	-	-	
Total Organic Halides (TOX)	TOX	-	-		21.8		50.7		ND		126		-		23.3		23.2		-	26.5	
Temperature (°C)		-	-		18.62		18.49		-		-		-		-		-		-	-	
pH (Std units)	C-006	6.5	6.5		7.63		8.14		-		-		-		-		-		-	-	
ORP (mV)		-	-		132		136		-		-		-		-		-		-	-	
Conductivity (mS/cm)		-	-		0.29		0.053		-		-		-		-		-		-	-	

Surface Water Sampling Results (DRAFT VERSION reflecting data received to date - may be revised or updated)				Stormwater - Northwest Corner	Stormwater - Northwest Corner	Storm Water NW Corner	Storm Water NW Corner	Storm Water Swale	Storm Water Creek Pit	Storm Water Creek Pit	Storm Water Horseshoe Trench	Storm Water Horseshoe Trench	Storm Water US	Storm Water US	Storm Water DS	Storm Water DS	Storm Water Swale	Storm Water Swale	Storm Water NW Pool	Storm Water NW Pool	
				9/10	9/10	9/30	9/30	9/30	9/30	9/30	9/30	9/30	9/30	9/30	9/30	9/30	10/2	10/2	10/2		
Analyte	Cas No.	MCL (ug/L)	Lowest Benchmark** (ug/L)	Total Metals	Dissolved Metals	Total Metals	Dissolved Metals	Total Metals	Dissolved Metals	Total Metals	Dissolved Metals	Total Metals	Dissolved Metals	Total Metals	Dissolved Metals	Total Metals	Dissolved Metals	Total Metals	Dissolved Metals		
Aluminum	7429-90-5	200	87	5300	1400	970	190	460	180	250	94	4700	ND	160	ND	210	ND	5000	140	440	650
Antimony	7440-36-0	6	5.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.2	2.7	3.5	ND	ND	ND	ND	ND	ND
Arsenic	7440-38-2	10	0.02	9.3	7.4	5	4.1	8.6	7.4	20	20	1.8	0.81	43	44	29	29	11	9.5	8	8.6
Barium	7440-39-3	2000	4	59	31	14	7.9	23	18	31	28	43	10	15	14	28	26	48	15	18	19
Beryllium	7440-41-7	4	0.66	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Cadmium	7440-43-9	5	0.25	2.8	2.8	0.82	0.82	2.9	2.9	3.2	ND	ND	3.9	4.1	3.6	3.6	4.8	5.1	0.99	1	
Calcium	7440-70-2	-	116000	42000	-	26000	-	62000	-	63000	-	16000	-	66000	-	67000	-	67000	-	45000	-
Chromium	7440-47-3	100	85	27	18	7.4	5.3	16	13	1.2	ND	5.6	ND	1.4	0.75	1.1	0.51	22	11	4.8	4
Cobalt	7440-48-4	-	19	120	110	58	54	140	130	170	170	28	25	220	220	210	200	200	210	140	150
Copper	7440-50-8	1000	9	1200	1100	160	130	1600	1600	170	160	14	10	290	270	220	200	960	990	79	76
Iron	7439-89-6	300	300	8800	2300	1500	210	1400	510	1400	980	4200	85	2200	2000	1800	1400	9600	1800	990	910
Lead	7439-92-1	5	2.5	43	34	8.3	5.9	98	88	8.9	8	4.6	0.88	11	10	11	9.7	95	83	6.4	5.5
Magnesium	7439-95-4	-	-	7600	-	3300	-	8200	-	8700	-	2700	-	10000	-	9500	-	14000	-	8600	-
Manganese	7439-96-5	50	50	3000	2500	180	140	2800	2700	120	100	69	12	170	180	290	270	2800	2400	620	550
Mercury	7439-97-6	2	0.026	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Molybdenum	7439-98-7	-	73	150	170	17	17	120	120	21	21	0.89	1.5	34	34	24	23	85	100	25	24
Nickel	7440-02-0	-	52	98	85	29	25	77	71	110	100	27	22	150	150	130	120	120	120	84	87
Potassium	7440-09-7	-	53000	95000	87000	30000	29000	94000	96000	31000	29000	4100	3400	51000	58000	37000	35000	78000	84000	50000	48000
Selenium	7782-49-2	50	1	0.69	0.56	ND	ND	0.84	0.74	0.62	0.55	ND	ND	1	0.83	0.71	0.58	0.69	ND	0.52	ND
Silver	7440-22-4	100	3.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Sodium	7440-23-5	-	680000	54000	49000	17000	16000	54000	53000	20000	18000	2600	2300	26000	30000	23000	21000	50000	53000	21000	21000
Thallium	7440-28-0	2	0.24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zinc	7440-66-6	5000	120	2800	2500	400	360	3000	2900	490	450	37	23	900	1000	630	580	3600	3500	220	220
Sulfate	14808-79-8	250000	250000	91000	-	31000	-	130000	-	63000	-	8400	-	92000	-	68000	-	126000	-	56800	-
Chloride	16887-00-6	250000	230000	29000	-	17000	-	62000	-	18000	-	ND	-	21000	-	20000	-	49500	-	20700	-
Phosphorus, Total (as P)	7723-14-0	-	-	2900	-	1100	-	1800	-	3100	-	390	-	4500	-	3600	-	2600	-	1100	-
Ortho-Phosphate (as P)	7723-14-0	-	-	2400	-	890	-	2800	-	400	-	4300	-	3300	-	1500	-	1500	-	760	-
Nitrogen, Ammonia (as N)	7664-41-7	-	19	2900	-	640	-	6000	-	240	-	ND	-	240	-	410	-	7900	-	500	-
Nitrite (as N)	14797-65-0	1000	20	2600	-	450	-	4500	-	690	-	ND	-	2800	-	910	-	1600	-	80	-
Nitrate (as N)	14797-55-8	10000	10000	12000	-	5100	-	18000	-	14000	-	2100	-	22000	-	16000	-	11400	-	2200	-
Nitrogen, Nitrate-Nitrite	C 005	10000	10000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrogen, Total Kjeldahl	7727-37-9	-	-	-	-	2100	-	14100	-	4300	-	2200	-	5900	-	5100	-	13500	-	4000	-
Total Organic Carbon	7440-44-0	-	-	-	-	16600	-	64800	-	40900	-	5500	-	60700	-	48000	-	61000	-	49400	-
Alkalinity, Total (CaCO3)	ALK	-	-	140000	-	ND	-	160000	-	110000	-	ND	-	110000	-	140000	-	118000	-	138000	-
Chemical Oxygen Demand	COD	-	-	180000	-	55000	-	170000	-	130000	-	ND	-	190000	-	130000	-	170000	-	150000	-
Total Dissolved Solids	TDS	-	-	-	-	50	-	162	-	16.8	-	ND	-	28.9	-	34.7	-	57.7	-	27.1	-
Total Organic Halides (TOX)	TOX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Temperature (°C)	-	-	-	22.42	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
pH (Std units)	C-006	6.5	6.5	10.83	-	-	-	-	-												

Surface Water Sampling Results (DRAFT VERSION reflecting data received to date - may be revised or updated)				Storm Water NW Corner	Storm Water NW Corner	Storm Water US	Storm Water DS	Storm Water DS	Slagle upstream	Slagle upstream	Slagle upstream	Slagle upstream	Slagle upstream	Slagle upstream	Slagle upstream	Slagle upstream	Slagle upstream	Slagle upstream
Analyte	Cas No.	MCL (ug/L)	Lowest Benchmark** (ug/L)	Total Metals	Dissolved Metals	Total Metals	Dissolved Metals	Total Metals	Dissolved Metals	Dissolved Metals	Total Metals	Dissolved Metals	Dissolved Metals	Total Metals	Dissolved Metals	Total Metals	Dissolved Metals	Total Metals
Aluminum	7429-90-5	200	87	130	160	ND	ND	1200	520	ND	ND	ND	ND	ND	ND	830	ND	ND
Antimony	7440-36-0	6	5.6	ND	ND	2.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	7440-38-2	10	0.02	11	11	41	46	21	22	ND	ND	1	ND	ND	0.57	ND	ND	ND
Barium	7440-39-3	2000	4	25	22	15	15	35	32	44	43	41	42	40	17.5	37	34	36
Beryllium	7440-41-7	4	0.66	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	7440-43-9	5	0.25	2.5	2.5	5	5.3	4.8	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Calcium	7440-70-2	-	116000	44000	-	70000	-	69000	-	-	-	-	-	-	-	29000	-	62000
Chromium	7440-47-3	100	85	3.8	2.1	0.69	ND	2	ND	ND	ND	ND	ND	ND	1.8	ND	ND	3.8
Cobalt	7440-48-4	-	19	200	200	240	250	260	260	ND	ND	ND	ND	ND	ND	1.2	ND	ND
Copper	7440-50-8	1000	9	190	170	280	280	230	220	1.1	0.61	1.5	1	ND	2.35	ND	0.69	5.9
Iron	7439-89-6	300	300	1200	900	2000	2100	3000	2200	ND	ND	ND	160	ND	98	120	ND	1200
Lead	7439-92-1	5	2.5	21	17	18	16	18	15	ND	ND	ND	ND	ND	ND	ND	5.5	ND
Magnesium	7439-95-4	-	-	7200	-	11000	-	10000	-	-	-	-	-	-	-	4300	-	9000
Manganese	7439-96-5	50	50	1000	990	69	69	190	150	25	22	23	28	24	35	22	19	170
Mercury	7439-97-6	2	0.026	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Molybdenum	7439-98-7	-	73	43	38	43	27	34	16	-	-	-	-	-	-	-	-	-
Nickel	7440-02-0	-	52	96	92	160	170	180	170	0.61	ND	ND	ND	ND	ND to 0.52	ND	ND	1.5
Potassium	7440-09-7	-	53000	74000	78000	43000	41000	31000	31000	2200	2200	2900	2600	2500	1600	2200	2100	1200
Selenium	7782-49-2	50	1	0.66	ND	0.76	ND	0.56	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	7440-22-4	100	3.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sodium	7440-23-5	-	680000	32000	34000	25000	25000	22000	22000	37000	38000	33000	36000	31000	11000	31000	30000	15000
Thallium	7440-28-0	2	0.24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	7440-66-6	5000	120	820	780	870	890	700	700	11	ND	ND	ND	ND	17	ND	15	66
Sulfate	14808-79-8	250000	250000	59000	-	87000	-	70000	-	14700	15400	16600	13900	-	3500	13300	-	6900
Chloride	16887-00-6	250000	230000	30000	-	26000	-	24000	-	-	-	-	-	-	-	33000	-	65000
Phosphorus, Total (as P)	7723-14-0	-	-	1400	-	5700	-	3300	-	ND	ND	59	ND	-	85	ND	100	ND
Ortho-Phosphate (as P)	7723-14-0	-	-	1100	-	5600	-	3100	-	-	20	19	30	-	33	ND	ND	ND
Nitrogen, Ammonia (as N)	7664-41-7	-	19	1500	-	120	-	400	-	-	-	160	ND	-	ND	170	-	ND
Nitrite (as N)	14797-65-0	1000	20	410	-	470	-	410	-	ND	ND	ND	ND	-	ND	ND	ND	ND
Nitrate (as N)	14797-55-8	10000	10000	1700	-	14000	-	12000	-	-	2500	2100	2600	-	620	2600	-	1000
Nitrogen, Nitrate-Nitrite	C 005	10000	10000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrogen, Total Kjeldahl	7727-37-9	-	-	6100	-	5700	-	4600	-	-	1500	ND	ND	-	1600	ND	600	ND
Total Organic Carbon	7440-44-0	-	-	49800	-	56500	-	61300	-	2500	3100	6100	5100	-	6400	2300	-	5800
Alkalinity, Total (CaCO3)	ALK	-	-	210000	-	140000	-	140000	-	-	-	120000	190000	-	68000	160000	-	75000
Chemical Oxygen Demand	COD	-	-	130000	-	180000	-	130000	-	-	-	15000	ND	-	20000	ND	-	ND
Total Dissolved Solids	TDS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (TOX)	TOX	-	-	21	-	17.9	-	11.7	-	-	-	47.7	ND	-	ND	ND	-	ND
Temperature (°C)	-	-	-	-	-	-	-	-	-	18.54	19.24	22.73	21.67	-	18.84	22.72	-	24.95
pH (Std units)	C-006	6.5	6.5	-	-	-	-	-	-	7.51	7.64	6.94	7.48	-	7.51	7.69	-	7.48
ORP (mV)	-	-	-	-	-	-	-	-	-	188	255	170	109	-	139	192	-	180
Conductivity (mS/cm)	-	-	-	-	-	-	-	-	-	-	0.5485	0.496	0.515	-	0.182	0.439	-	0.42
Turbidity (NTU)	-	-	-	-	-	-	-	-	-	0	0	6.7	3	-	29.6	0	-	130
DO (mg/L)	-	-	-	-	-	-	-	-	-	8.03	7.80	8.92	5.71	-	5.8	4.8	-	5.98
Total Hardness (Mg+Ca as CaCO3)	HARDCAMG	-	-	140000	-	220000	-	210000	-	-	-	-	-	-	-	90000	-	190000

Daily Rainfall (in) 1.12 (10/2 - 10/3) 1.12 (10/2 - 10/3) 1.12 (10/2 - 10/3) 0.43 0.00 0.20 0.00 0.00 1.23 0.23 0.23 0.34 0.34 0.10 0.10

Yellow results are above lowest benchmark

Green, bold results are above the MCL

"-" means not sampled or not received

** Benchmarks include PADEP ambient water quality and human health criteria for surface water, USEPA Region 3 freshwater benchmarks for ecological risk, and drinking water MCLs.

Surface Water Sampling Results (DRAFT VERSION reflecting data received to date - may be revised or updated)				Slagle upstream	Slagle upstream	Slagle upstream	Slagle upstream										
	7/12	7/12	7/24	7/24	7/30	7/30	8/6	8/6	8/13	8/13	8/20	8/20	8/27	8/27	8/27	9/3	9/3
Analyte	Cas No.	MCL (ug/L)	Lowest Benchmark** (ug/L)	Total Metals	Dissolved Metals	Total Metals	Total Metals										
Aluminum	7429-90-5	200	87	82	ND	67	ND	480	ND	52	ND	ND	980	100	ND	ND	ND
Antimony	7440-36-0	6	5.6	ND	ND	ND	ND										
Arsenic	7440-38-2	10	0.02	ND	ND	ND to 0.54	ND	0.78	ND	ND	ND	ND	2	1.2	ND	ND	ND
Barium	7440-39-3	2000	4	42	38	38.5	39.5	26	20	43	39	43	37	30	21	47	45
Beryllium	7440-41-7	4	0.66	ND	ND	ND	ND										
Cadmium	7440-43-9	5	0.25	ND	ND	ND	ND										
Calcium	7440-70-2	-	116000	66000	-	69000	-	28000	-	69000	-	73000	-	18000	-	85000	-
Chromium	7440-47-3	100	85	ND	ND	ND	ND	2.3	1.3	ND	ND	ND	1.7	0.63	ND	ND	ND
Cobalt	7440-48-4	-	19	ND	ND	ND	ND	0.53	ND	ND	ND	ND	0.89	ND	ND	ND	0.715
Copper	7440-50-8	1000	9	0.61	ND	ND	ND	5.5	3.4	1.4	1.1	0.76	ND	6.4	5	0.9	0.76
Iron	7439-89-6	300	300	160	ND	90	ND	660	ND	100	ND	90	ND	1300	160	76	ND
Lead	7439-92-1	5	2.5	ND	ND	ND	ND	1.8	ND	ND	ND	ND	ND	3.9	1.4	ND	ND
Magnesium	7439-95-4	-	-	9900	-	10000	-	3800	-	11000	-	11000	-	3000	-	13000	-
Manganese	7439-96-5	50	50	27	20	16	14	71	33	22	14	18	14	59	32	20	15
Mercury	7439-97-6	2	0.026	ND	ND	ND	ND										
Molybdenum	7439-98-7	-	73	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	7440-02-0	-	52	ND	ND	ND	ND	1	ND	ND	ND	ND	ND	1.7	0.95	ND	ND
Potassium	7440-09-7	-	53000	2200	2000	2000	2000	1700	1600	2200	2100	2200	1900	4300	4100	2300	2000
Selenium	7782-49-2	50	1	ND	ND	ND	ND										
Silver	7440-22-4	100	3.2	ND	ND	ND	ND										
Sodium	7440-23-5	-	680000	32000	31000	33000	30000	13000	14000	31000	34000	33000	29000	8600	9300	36000	34000
Thallium	7440-28-0	2	0.24	ND	ND	ND	ND										
Zinc	7440-66-6	5000	120	14	12	10.5	11.5	44	23	14	19	12	ND	32	27	13	14
Sulfate	14808-79-8	250000	250000	14000	15750	15750	15750	6300	16000	16000	15000	15000	5200	17000	17000	17000	ND
Chloride	16887-00-6	250000	230000	67000	72050	72050	72050	26000	71000	71000	71000	71000	17000	83000	83000	81000	6600
Phosphorus, Total (as P)	7723-14-0	-	-	ND	ND	ND	ND	100	ND	ND	ND	ND	320	ND	ND	ND	86
Ortho-Phosphate (as P)	7723-14-0	-	-	ND	25	25	25	66	ND	ND	ND	ND	280	ND	ND	ND	76
Nitrogen, Ammonia (as N)	7664-41-7	-	19	ND	ND	ND	ND	300	ND	ND	ND	ND	130	ND	ND	ND	ND
Nitrite (as N)	14797-65-0	1000	20	ND	ND	ND	ND										
Nitrate (as N)	14797-55-8	10000	10000	2500	3000	3000	3000	820	2000	2000	2000	2000	580	2300	2300	1900	200
Nitrogen, Nitrate-Nitrite	C 005	10000	10000	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrogen, Total Kjeldahl	7727-37-9	-	-	ND	900	900	900	2400	ND	ND	ND	ND	700	ND	ND	ND	1050
Total Organic Carbon	7440-44-0	-	-	1800	1350	1350	1350	8900	1600	1600	2100	2100	8400	1300	1300	1700	4650
Alkalinity, Total (CaCO3)	ALK	-	-	150000	165000	165000	165000	65000	150000	150000	170000	170000	52000	160000	160000	210000	
Chemical Oxygen Demand	COD	-	-	ND	ND	ND	ND	27000	ND	ND	ND	ND	41000	ND	ND	ND	ND to 45000
Total Dissolved Solids	TDS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halides (TOX)	TOX	-	-	16.2	ND	ND	ND	23.9	ND	ND	ND	ND	ND	ND	ND	ND	ND
Temperature (°C)	-	-	-	23.24	23.33	23.33	23.33	27.32	23.73	23.73	23.75	23.75	24.20	19.76	19.76	25.12	21.82
pH (Std units)	C-006	6.5	6.5	7.84	8.15	8.15	8.15	7.54	7.58	7.58	8.05	8.05	8.25	8.5	8.5	8.24	8.54
ORP (mV)	-	-	-	169	260	260	260	213	191	191	224	224	156	178	178	160	174
Conductivity (mS/cm)	-	-	-	0.440	0.532	0.532	0.532	0.200	0.527	0.527	0.544	0.544	0.146	0.507	0.507	0.471	0.072
Turbidity (NTU)	-	-	-	0.0	0.0	0.0	0.0	90.0	0.0	0.0	0	0	104	0	0	0	36.3
DO (mg/L)	-	-	-	7.27	7.13	7.13	7.13	5.87	6.61	6.61	7.51	7.51	2.33	7.29	7.29	5.97	2.74
Total Hardness (Mg+Ca as CaCO3)	HARDCAMG	-	-	210000	215000	215000	215000	86000	220000	220000	230000	230000	57000	270000	270000	240000	38000

Daily Rainfall (in) 0.60 0.60 0.00 0.00 0.31 0.31 0.01 0.01 0.00 0.00 0.00 0.00 2.43 2.43 0.00 0.00 0.00 1.77

Yellow results are above lowest benchmark

Green, bold results are above the MCL

"-" means not sampled or not received

** Benchmarks include PADEP ambient water quality and human health criteria for surface water, USEPA Region 3 freshwater benchmarks for ecological risk, and drinking water MCL

Surface Water Sampling Results (DRAFT VERSION reflecting data received to date - may be revised or updated)				Slagle upstream	Slagle upstream	Slagle upstream	Slagle upstream	Slagle upstream	Slagle upstream	Slagle upstream	Slagle downstream												
Analyte	Cas No.	MCL (ug/L)	Lowest Benchmark** (ug/L)	Dissolved Metals	Total Metals	Dissolved Metals	Total Metals	Dissolved Metals	Total Metals	Dissolved Metals	Dissolved Metals	Total Metals	Dissolved Metals	Dissolved Metals	Total Metals	Dissolved Metals	Total Metals	Dissolved Metals					
Aluminum	7429-90-5	200	87	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	250	ND	ND					
Antimony	7440-36-0	6	5.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND					
Arsenic	7440-38-2	10	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	4.6	ND	ND					
Barium	7440-39-3	2000	4	7.4	45	38	39	42	44	45	44	46	44	45	30	27	41	33	28	40	41		
Beryllium	7440-41-7	4	0.66	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
Cadmium	7440-43-9	5	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.4	1.4	ND	ND	ND	ND			
Calcium	7440-70-2	-	116000	-	80000	-	78000	-	83000	-	83000	-	-	-	-	-	-	-	-	-			
Chromium	7440-47-3	100	85	2.45	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
Cobalt	7440-48-4	-	19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.61	ND	ND	ND	2	42	38	2.5	2.45
Copper	7440-50-8	1000	9	2.45	0.85	1.1	1.3	ND	1.2	ND	0.87	ND	3.2	2.2	2.9	2.1	2.5	360	300	2.45	1.7		
Iron	7439-89-6	300	300	ND	83	ND	62	ND	100	ND	63	ND	ND	ND	ND	120	100	1800	1400	210	ND		
Lead	7439-92-1	5	2.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	0.58	ND	ND	ND	18	16	1.2	ND		
Magnesium	7439-95-4	-	-	-	11000	-	11000	-	12000	-	11000	-	-	-	-	-	-	-	-	-	-		
Manganese	7439-96-5	50	50	12	19	14	14	14	27	22	19	17	31	24	27	6.2	34	2400	2100	74	70		
Mercury	7439-97-6	2	0.026	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
Molybdenum	7439-98-7	-	73	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-		
Nickel	7440-02-0	-	52	ND	ND	0.61	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.1	8	7.2	1.25	1.15		
Potassium	7440-09-7	-	53000	1100	2100	2000	2100	2000	2600	2400	2200	2400	2200	2400	2900	2900	3000	23000	21000	2600	2600		
Selenium	7782-49-2	50	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
Silver	7440-22-4	100	3.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
Sodium	7440-23-5	-	680000	3450	35000	37000	38000	35000	37000	35000	37000	38000	37000	39000	20000	29000	32000	30000	29000	35000	32000		
Thallium	7440-28-0	2	0.24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
Zinc	7440-66-6	5000	120	19	ND	ND	26	ND	13	ND	ND	ND	34	17	ND	ND	ND	2800	2500	ND	23.5		
Sulfate	14808-79-8	250000	250000		17000		18000		18000		17000		14500	15400	-		11300	-		13000			
Chloride	16887-00-6	250000	230000		83000		85000		78000		81000		-	-	-	-	-	-	-	-			
Phosphorus, Total (as P)	7723-14-0	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	83	13000		66.5					
Ortho-Phosphate (as P)	7723-14-0	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	17	-	23		-		ND			
Nitrogen, Ammonia (as N)	7664-41-7	-	19	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	120		-	120				
Nitrite (as N)	14797-65-0	1000	20		ND		ND		ND		ND		-	ND	ND	ND	ND	ND	ND	ND			
Nitrate (as N)	14797-55-8	10000	10000		2000		1900		2000		2200		-	2300	1500		1900	800		2100			
Nitrogen, Nitrate-Nitrite	C 005	10000	10000		-		-		-		-		-	-	-	-	-	-	-	-			
Nitrogen, Total Kjeldahl	7727-37-9	-	-		2000		800		ND		-		-	5000	6600		ND	21200		1000			
Total Organic Carbon	7440-44-0	-	-		1500		1900		2700		-		3100	3700	8800		7600	42100		5950			
Alkalinity, Total (CaCO3)	ALK	-	-		220000		210000		210000		200000		-	-	-	-	120000	-		180000			
Chemical Oxygen Demand	COD	-	-		ND		ND		ND		ND		-	-	ND		7000	130000		ND			
Total Dissolved Solids	TDS	-	-		-		-		-		-		-	-	ND		-	ND		-			
Total Organic Halides (TOX)	TOX	-	-		ND		8.1		ND		-		-	-	15.2		-	8.4		ND			
Temperature (°C)		-	-		24.25		18.86		16.75		16.08		18.81	19.63	-		25.37	-		23.1			
pH (Std units)	C-006	6.5	6.5		7.23		8.56		7.96		8.42		7.59	8.47	-		7.4	-		7.49			
ORP (mV)		-	-		165		162		136		166		197	150	-		175	-		129			
Conductivity (mS/cm)		-	-		0.902		0.569		0.356		0.532		-	0.341	-		0.459	-		0.505			
Turbidity (NTU)		-	-		0		0		1		0		0	15.45	-		3.9	-		3			
DO (mg/L)		-	-		6.92		4.79		6.71		7.71		8.99	3.93	-		5.28	-		5.41			
Total Hardness (Mg+Ca as CaCO3)	HARDCAMG	-	-		250000		240000		260000		250000		-	-	-	-	-	-	-	-			

Daily Rainfall (in) 1.77 0.00 0.00 0.00 0.00 0.35 0.35 0.00 0.00 0.43 0.00 0.40 0.40 0.20 0.40 0.40 0.00 0.00 0.00

Yellow results are above lowest benchmark

Green, bold results are above the MCL

"—" means not sampled or not received

** Benchmarks include PADEP ambient water quality and human health

criteria for surface water. USEPA Region 3 freshwater benchmarks for

ecological risk, and drinking water MCLs.

Eco-toxicological risk, and drinking water quality

Surface Water Sampling Results (DRAFT VERSION reflecting data received to date - may be revised or updated)				Slagle downstream 2	Hanover Intake - PADEP	Hanover Intake	Hanover Intake	Hanover Intake	Hanover Intake	Hanover Intake												
Analyte	Cas No.	MCL (ug/L)	Lowest Benchmark** (ug/L)	Total Metals	Dissolved Metals	Total Metals	Dissolved Metals	Total Metals	Dissolved Metals	Total Metals	Dissolved Metals											
Aluminum	7429-90-5	200	87	ND	ND	3500	ND	93	ND	ND	ND	93	ND	230	ND	1610	ND	ND	ND	150	ND	ND
Antimony	7440-36-0	6	5.6	ND	-	ND	ND	ND	ND	ND	ND											
Arsenic	7440-38-2	10	0.02	ND	ND	1.3	ND	ND	ND	ND	ND	2	1.8	ND	ND	105	0.78	0.7	1.15	ND	ND	ND
Barium	7440-39-3	2000	4	47	48	60	16	48	42	42	42	47	44	48	46	190	46	44	41	44	40	41.5
Beryllium	7440-41-7	4	0.66	ND	ND (< 5.0)	ND	ND	ND	ND	ND	ND											
Cadmium	7440-43-9	5	0.25	ND	0.51	ND	ND	ND	42.2	1.5	1.5	ND	ND	ND	ND							
Calcium	7440-70-2	-	116000	79000	-	35000	-	84000	-	79000	-	75000	-	87000	-	-	-	-	-	-	-	-
Chromium	7440-47-3	100	85	ND	ND	5.8	1.5	ND	37.2	ND	ND	ND	ND	ND	ND							
Cobalt	7440-48-4	-	19	ND	ND	2.7	ND	ND	ND	ND	ND	20	20	2.3	2.1	1950	14	12	9.15	5.2	5	3.45
Copper	7440-50-8	1000	9	0.96	1.4	14	2.7	1.1	1.7	1.1	ND	20	17	2.1	1.1	24400	97	73	31	22	22	13.5
Iron	7439-89-6	300	300	71	ND	3100	ND	170	ND	64	ND	270	140	400	ND	80800	240	140	120	320	ND	65
Lead	7439-92-1	5	2.5	ND	ND	12	ND	0.53	ND	ND	ND	2.7	2.9	1.2	ND	980	25	21	9.9	8.1	7.4	4.25
Magnesium	7439-95-4	-	-	12000	-	5600	-	12000	-	11000	-	10000	-	12000	-	-	-	-	-	-	-	-
Manganese	7439-96-5	50	50	17	15	320	42	25	12	11	11	80	100	61	29	83800	140	87	59.5	40	21	15.5
Mercury	7439-97-6	2	0.026	ND	ND (< 0.2)	ND	ND	ND	ND	ND	ND											
Molybdenum	7439-98-7	-	73	-	-	0.58	1.1	ND	ND	ND	ND	3.1	2.5	ND	ND	-	-	-	-	-	-	-
Nickel	7440-02-0	-	52	ND	ND	3.7	ND	ND	0.99	ND	ND	13	14	1.6	1.4	80.5	3.3	3.5	3.4	2.5	2.3	1.8
Potassium	7440-09-7	-	53000	2100	2100	1700	1300	2200	2200	2200	2000	5400	4700	2300	2400	907000	7800	6700	4500	4100	4000	3500
Selenium	7782-49-2	50	1	ND	ND (< 35.0)	ND	ND	ND	ND	ND	ND											
Silver	7440-22-4	100	3.2	ND	ND (< 2.0)	ND	ND	ND	ND	ND	ND											
Sodium	7440-23-5	-	680000	36000	35000	11000	9900	37000	38000	40000	36000	33000	31000	38000	39000	432000	21000	20000	17000	18000	16000	19500
Thallium	7440-28-0	2	0.24	ND	-	ND	ND	ND	ND	ND	ND											
Zinc	7440-66-6	5000	120	14	12	120	16	12	14	25	ND	70	59	15	ND	78500	390	300	160	96	110	65.5
Sulfate	14808-79-8	250000	250000	17000	-	6600	-	17000	-	18000	-	22000	-	19000	-	359460	24600	23800	26850	25800	-	24700
Chloride	16887-00-6	250000	230000	83000	-	25000	-	84000	-	91000	-	70000	-	83000	-	-	-	-	-	-	-	-
Phosphorus, Total (as P)	7723-14-0	-	-	ND	-	180	-	ND	-	ND	-	360	-	ND	-	660	460	330	170	110	-	-
Ortho-Phosphate (as P)	7723-14-0	-	-	ND	-	71	-	ND	-	ND	-	350	-	ND	-	-	240	145	92	53	-	-
Nitrogen, Ammonia (as N)	7664-41-7	-	19	ND	-	190	-	ND	-	ND	-	ND	-	ND	-	-	-	195	ND	-	-	-
Nitrite (as N)	14797-65-0	1000	20	ND	-	9700	-	800	ND	160	-	-										
Nitrate (as N)	14797-55-8	10000	10000	1800	-	640	-	1900	-	1700	-	2500	-	2100	-	202910	-	2500	2600	3000	-	3000
Nitrogen, Nitrate-Nitrite	C 005	10000	10000	-	-	-	-	-	-	-	-	-	-	-	-	-	3250	-	-	-	-	-
Nitrogen, Total Kjeldahl	7727-37-9	-	-	ND	-	2000	-	1300	-	1800	-	900	-	ND	-	-	5300	1000	550	ND	-	-
Total Organic Carbon	7440-44-0	-	-	1700	-	9500	-	1500	-	2100	-	7500	-	-	-	20610000	7800	6700	6300	5200	-	6800
Alkalinity, Total (CaCO3)	ALK	-	-	190000	-	160000	-	220000	-	200000	-	190000	-	210000	-	-	-	-	120000	180000	-	200000
Chemical Oxygen Demand	COD	-	-	ND	-	38000	-	ND	-	ND	-	33000	-	ND	-	-	-	-	-	11000	ND	-
Total Dissolved Solids	TDS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total Organic Halides (TOX)	TOX	-	-	ND	-	ND	-	ND	-	13	-	6.8	-	-	-	-	-	-	-	10.4	ND	-
Temperature (°C)	-	-	-	28.95	-	21.92	-	28.24	-	-	-	16.04	-	15.28	-	-	19.98	20.15	22.42	21.84	-	17.66
pH (Std units)	C-006	6.5	6.5	8.3	-	8.54	-	7.36	-	-	-	8	-	8.46	-	-	7.94	8.25	7.76	8.04	-	7.7
ORP (mV)	-	-	-	161	-	164	-	156	-	-	-	148	-	169	-	-	226	214	154	123	-	164

Surface Water Sampling Results (DRAFT VERSION reflecting data received to date - may be revised or updated)				Hanover Intake	Hanover Intake																			
Analyte	Cas No.	MCL (ug/L)	Lowest Benchmark** (ug/L)	6/30	6/30	7/6	7/6	7/9	7/9	7/12	7/12	7/24	7/24	7/30	7/30	8/6	8/6	8/13	8/13	8/20	8/20	8/27	8/27	9/3
		Total Metals	Dissolved Metals	Total Metals	Dissolved Metals	Total Metals	Dissolved Metals	Total Metals	Dissolved Metals	Total Metals	Dissolved Metals	Total Metals	Dissolved Metals	Total Metals	Dissolved Metals	Total Metals	Dissolved Metals	Total Metals	Dissolved Metals	Total Metals	Dissolved Metals	Total Metals	Dissolved Metals	
Aluminum	7429-90-5	200	87	310	ND	120	ND	210	ND	240	ND to 52	82	ND	91	ND	77	ND	90	ND	555	ND	74	ND	83
Antimony	7440-36-0	6	5.6	ND	ND	ND																		
Arsenic	7440-38-2	10	0.02	ND	ND	ND	ND	0.67	ND	ND	ND	0.61	ND	ND	ND	ND	ND	ND	ND	0.745	ND	ND	ND	ND
Barium	7440-39-3	2000	4	44.5	39	42.5	40	43	39	42.5	39	42	43	48	46	46	43	48	39	24	18.5	46	49	47
Beryllium	7440-41-7	4	0.66	ND	ND	ND																		
Cadmium	7440-43-9	5	0.25	ND	ND	ND																		
Calcium	7440-70-2	-	116000	-	-	61500	-	60000	-	58000	-	61000	-	61000	-	59500	-	51000	-	27500	-	60000	-	56000
Chromium	7440-47-3	100	85	ND	ND	ND	ND	ND	ND	ND	ND to 0.58	ND to 1.1	ND	ND	ND	ND	ND	ND	ND	1.45	0.58	ND	ND	ND
Cobalt	7440-48-4	-	19	3.1	2.7	2.45	2.2	2.2	2	1.95	1.7	1.4	1.4	1.7	1.5	1.4	1.35	1.5	1.2	0.88	ND to 0.53	1.4	1.1	1.05
Copper	7440-50-8	1000	9	13.5	12	9.2	8.45	8.4	7.3	6.4	6.85	4.6	4	5.1	4.7	4.1	4.2	4.4	2.9	4.75	2.55	3.7	3.7	3.15
Iron	7439-89-6	300	300	580	ND	230	ND	440	ND	385	ND	170	ND	180	ND	150	ND	150	ND	690	ND	170	ND	165
Lead	7439-92-1	5	2.5	4.95	3.6	2.9	2.3	2.8	2	2.1	1.3	0.98	0.67	1.1	ND	0.78	0.54	0.77	ND	2.05	ND	0.8	ND	0.65
Magnesium	7439-95-4	-	-	-	-	14000	-	13000	-	14000	-	14000	-	16000	-	15000	-	13000	-	5800	-	15000	-	15000
Manganese	7439-96-5	50	50	44	12	22	7.3	30	7.3	21.5	4.8	16	3.4	20	5.1	17.5	3.65	17	2.7	46.5	9.95	17	3.2	15.5
Mercury	7439-97-6	2	0.026	ND	ND	ND																		
Molybdenum	7439-98-7	-	73	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	7440-02-0	-	52	1.95	1.5	1.5	1.35	1.7	1.2	1.35	1.2	1.2	1	1.3	1.2	1.15	1.2	1.4	0.93	1.25	0.645	1.2	1.2	1.15
Potassium	7440-09-7	-	53000	3250	3050	3400	3200	3400	3100	3400	3600	4600	4400	5800	4700	6700	6200	6500	7000	3550	3550	7000	6400	8000
Selenium	7782-49-2	50	1	ND	ND	ND																		
Silver	7440-22-4	100	3.2	ND	ND	ND																		
Sodium	7440-23-5	-	680000	14000	13500	17000	15000	14000	14000	15500	21000	21000	17000	18000	24500	22000	22000	24000	9850	10000	26000	25000	30500	
Thallium	7440-28-0	2	0.24	ND	ND	ND																		
Zinc	7440-66-6	5000	120	56.5	52.5	38.5	37	45	38	32	26.5	26	19	44	ND	21	22	17	15	24.5	12.5	26	18	17.5
Sulfate	14808-79-8	250000	250000	27000	-	24500	-	23000	-	24500	-	27400	-	26000	-	23500	-	25000	-	8150	-	25000	-	24500
Chloride	16887-00-6	250000	230000	-	-	28000	-	27000	-	29500	-	40700	-	33000	-	36500	-	36000	-	16000	-	37000	-	39000
Phosphorus, Total (as P)	7723-14-0	-	-	82.5	-	68	-	67	-	56.5	-	ND	-	ND	-	ND to 51	-	94	-	165	-	ND	-	ND
Ortho-Phosphate (as P)	7723-14-0	-	-	35	-	51	-	59	-	ND to 50	-	29	-	ND	-	55.5	-	82	-	125	-	ND	-	ND
Nitrogen, Ammonia (as N)	7664-41-7	-	19	ND	-	ND																		
Nitrite (as N)	14797-65-0	1000	20	140	-	ND	-	ND																
Nitrate (as N)	14797-55-8	10000	10000	3250	-	2600	-	2500	-	2650	-	3500	-	2500	-	2400	-	2200	-	830	-	2200	-	2200
Nitrogen, Nitrate-Nitrite	C 005	10000	10000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrogen, Total Kjeldahl	7727-37-9	-	-	1000	-	ND to 400	-	ND	-	ND	-	1400	-	700	-	ND	-	ND to 600	-	ND	-	ND	-	ND
Total Organic Carbon	7440-44-0	-	-	2100	-	1900	-	2600	-	2000	-	1500	-	2200	-	1800	-	2100	-	4850	-	1600	-	1750
Alkalinity, Total (CaCO3)	ALK	-	-	155000	-	165000	-	170000	-	170000	-	200000	-	155000	-	170000	-	72000	-	160000</td				

Surface Water Sampling Results (DRAFT VERSION reflecting data received to date - may be revised or updated)				Hanover Intake	Hanover Intake	South Branch upstream																		
				9/3	9/10	9/10	9/17	9/17	9/24	9/24	10/1	10/1	10/8	10/8	6/12	6/14	6/21	6/24	6/24	6/27	6/30			
Analyte	Cas No.	MCL (ug/L)	Lowest Benchmark** (ug/L)	Dissolved Metals	Total Metals	Dissolved Metals	Total Metals	Dissolved Metals	Total Metals	Dissolved Metals	Dissolved Metals	Dissolved Metals	Dissolved Metals	Total Metals	Dissolved Metals	Dissolved Metals	Total Metals	Dissolved Metals	Total Metals	Dissolved Metals				
Aluminum	7429-90-5	200	87	ND to 59	73	ND	84.5	ND	280	ND	370	78	110	ND	ND	ND	210	ND	ND	190	ND	140	ND	
Antimony	7440-36-0	6	5.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Arsenic	7440-38-2	10	0.02	ND	ND	ND	ND	ND	ND	ND	0.56	ND	ND	ND	ND	ND	1.2	ND	ND	ND to 0.56	ND	ND	ND	
Barium	7440-39-3	2000	4	47.5	47	45	51	41	49	46	45	44	46	33.5	33	32	34	33	31	27	33	31		
Beryllium	7440-41-7	4	0.66	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Cadmium	7440-43-9	5	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Calcium	7440-70-2	-	116000	-	57000	-	59500	-	56000	-	56000	-	60000	-	-	-	-	-	-	-	42000	-		
Chromium	7440-47-3	100	85	ND	ND	ND	ND	ND	ND	ND	0.78	ND	ND	ND										
Cobalt	7440-48-4	-	19	1.1	1.1	0.97	1.25	0.94	1.3	1.1	1.8	1.5	1.1	1.1	ND	ND	ND	ND	ND	ND	ND	ND		
Copper	7440-50-8	1000	9	3.2	3.3	2.7	3.3	2.25	2.7	2.2	3.9	2.8	2.7	2.3	1	1.1	2.1	1.4	1.1	0.885	1.4	1.5	0.78	
Iron	7439-89-6	300	300	64.5	140	ND	170	ND	560	ND	720	110	280	ND	ND	ND	160	380	ND	59	420	ND	290	
Lead	7439-92-1	5	2.5	ND	0.56	ND	0.65	ND	0.52	ND	1.5	ND	0.55	ND	ND	ND								
Magnesium	7439-95-4	-	-	-	15000	-	14500	-	14000	-	14000	-	14000	-	-	-	-	-	-	-	-	8000		
Manganese	7439-96-5	50	50	7.65	17	2.2	19	4	23	5.2	40	10	18	2.1	26.5	32	31	42	27	19	48	23	34	16
Mercury	7439-97-6	2	0.026	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Molybdenum	7439-98-7	-	73	-	0.96	1.2	1.05	1.4	0.83	1.1	1	1.1	0.94	1.1	-	-	-	-	-	-	-	-	-	
Nickel	7440-02-0	-	52	1.2	1.2	ND	1.2	1.015	1.2	0.83	1.7	1.4	1.2	ND	0.74	0.77	ND	ND	ND	0.57	ND	ND	0.56	
Potassium	7440-09-7	-	53000	7250	7500	7200	7600	7200	6800	5800	4400	4600	4800	4500	8100	8800	4700	5400	5600	4300	3800	3500	3400	3700
Selenium	7782-49-2	50	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Silver	7440-22-4	100	3.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Sodium	7440-23-5	-	680000	28000	25000	24000	25000	25000	23000	21000	16000	16000	18000	18000	25500	25000	13000	18000	17000	13500	15000	13000	17000	15000
Thallium	7440-28-0	2	0.24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zinc	7440-66-6	5000	120	49	16	14	14	15	28	ND	19	19	12	ND	16.5	27	ND	ND	ND	14.5	ND	17	ND	17
Sulfate	14808-79-8	250000	250000	-	25000	-	25000	-	26000	-	26000	-	25000	-	18750	16800	11000	15000	-	13700	14600	-	15000	
Chloride	16887-00-6	250000	230000	-	37000	-	37000	-	38000	-	29000	-	31000	-	-	-	-	-	-	-	-	28000		
Phosphorus, Total (as P)	7723-14-0	-	-	ND	-	55	-	ND	62	-	ND	-	79	99	120	51	-	ND	82	-	ND	-		
Ortho-Phosphate (as P)	7723-14-0	-	-	ND	-	52.5	-	ND	55	-	ND	-	-	70	27	28	-	22	48	-	ND	-		
Nitrogen, Ammonia (as N)	7664-41-7	-	19	ND	-	ND	-	ND	ND	-	ND	-	-	-	130	ND	-	ND	260	-	ND	-		
Nitrite (as N)	14797-65-0	1000	20	ND	-	ND	-	ND	ND	-	ND	-	-	ND	ND	ND	-	ND	180	-	ND	-		
Nitrate (as N)	14797-55-8	10000	10000	-	2100	-	2300	-	2700	-	1800	-	2300	-	-	2500	1700	3000	-	2800	3300	-	2400	
Nitrogen, Nitrate-Nitrite	C 005	10000	10000	-	-	-	-	-	-	-	-	-	-	3395	-	-	-	-	-	-	-	-		
Nitrogen, Total Kjeldahl	7727-37-9	-	-	700	-	1500	-	700	-	400	-	-	-	3350	ND	ND	900	-	600	ND	-	ND		
Total Organic Carbon	7440-44-0	-	-	-	1800	-	1950	-	1500	-	2600	-	-	-	3750	4400	9600	5500	-	5900	3400	-	2700	
Alkalinity, Total (CaCO3)	ALK	-	-	-	330000	-	170000	-	140000	-	130000	-	180000	-	-	-	99000	160000	-	160000	120000	-	100000	
Chemical Oxygen Demand	COD	-	-	-	ND	-	ND	-	ND	-	ND	-	ND	-	-	-	25000	20000	-	ND	ND	-		
Total Dissolved Solids	TDS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Total Organic Halides (TOX)	TOX	-	-	-	13.2	-	ND	-	10.9	-	10.3	-	-	-	-	-	41.6	-	14.8	8.7	-	10.3		
Temperature (°C)	-	-	-	-	19.91	-	19.73</td																	

Surface Water Sampling Results (DRAFT VERSION reflecting data received to date - may be revised or updated)				South Branch upstream																				
				7/9	7/9	7/12	7/12	7/24	7/24	7/30	7/30	8/6	8/6	8/13	8/13	8/20	8/20	8/27	8/27	9/3	9/3	9/10	9/10	9/17
Analyte	Cas No.	MCL (ug/L)	Lowest Benchmark** (ug/L)	Total Metals	Dissolved Metals	Total Metals	Total Metals																	
Aluminum	7429-90-5	200	87	330	ND	130	ND	120	ND	360	ND	110	ND	4100	ND	110	57	130	ND	140	ND	95		
Antimony	7440-36-0	6	5.6	ND	ND																			
Arsenic	7440-38-2	10	0.02	1.1	0.74	ND	ND	0.62	ND	0.54	ND	0.53	ND	ND	1.8	0.56	0.54	0.53	0.53	ND	ND	ND		
Barium	7440-39-3	2000	4	33	28	34	33	32	30	34	33	38	30	31	28	74	25	33	35	35	33	33		
Beryllium	7440-41-7	4	0.66	ND	ND																			
Cadmium	7440-43-9	5	0.25	ND	ND																			
Calcium	7440-70-2	-	116000	40000	-	49000	-	50000	-	58000	-	51000	-	52000	-	35000	-	52000	-	47000	-	48000	-	50000
Chromium	7440-47-3	100	85	0.62	ND	0.71	ND	ND	ND	7.2	0.54	ND	ND	ND	ND	ND	ND							
Cobalt	7440-48-4	-	19	0.64	ND	0.62	ND	ND	ND	3	ND	ND	ND	ND	ND	ND	ND							
Copper	7440-50-8	1000	9	2.4	1.5	1.3	0.67	1.4	0.87	1.3	1.1	2	1.5	1.9	0.67	14	2.2	1.1	1	1.4	1.4	1.7	1.1	
Iron	7439-89-6	300	300	690	130	270	ND	230	ND	210	ND	530	ND	180	ND	4400	ND	190	60	180	ND	220	ND	160
Lead	7439-92-1	5	2.5	1.3	ND	0.59	ND	0.58	ND	0.53	ND	1.7	ND	0.6	ND	27	ND	0.64	ND	ND	0.64	ND	ND	
Magnesium	7439-95-4	-	-	7300	-	8900	-	8700	-	9400	-	9000	-	9300	-	6500	-	9100	-	9800	-	8500	-	8900
Manganese	7439-96-5	50	50	55	26	36	20	25	15	27	20	43	19	31	20	220	17	36	26	29	20	34	22	48
Mercury	7439-97-6	2	0.026	ND	ND	ND	ND																	
Molybdenum	7439-98-7	-	73	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	
Nickel	7440-02-0	-	52	1.1	0.71	0.65	ND	0.65	ND	0.68	ND	0.85	0.64	0.84	0.51	4.8	0.67	0.73	0.75	0.85	0.7	0.89	ND	0.75
Potassium	7440-09-7	-	53000	6000	6300	6300	5500	9400	10000	12000	10000	11000	11000	15000	14000	4500	4600	14000	14000	16000	14000	13000	13000	14000
Selenium	7782-49-2	50	1	ND	ND	ND	ND																	
Silver	7440-22-4	100	3.2	ND	ND	ND	ND																	
Sodium	7440-23-5	-	680000	14000	14000	18000	19000	27000	26000	28000	28000	31000	31000	35000	31000	13000	14000	43000	49000	47000	46000	39000	38000	35000
Thallium	7440-28-0	2	0.24	ND	ND	ND	ND																	
Zinc	7440-66-6	5000	120	25	14	33	28	21	17	36	ND	23	24	19	17	76	19	23	18	24	23	19	19	
Sulfate	14808-79-8	250000	250000	11000		17000		24300		21000		18000		22000		10000		22000		24000		21000		21000
Chloride	16887-00-6	250000	230000	22000		31000		41200		40000		37000		42000		22000		48000		38000		45000		47000
Phosphorus, Total (as P)	7723-14-0	-	-	490		ND		76		70		170		370		220		280		ND		ND		290
Ortho-Phosphate (as P)	7723-14-0	-	-	460		ND		63		71		160		340		150		270		ND		ND		270
Nitrogen, Ammonia (as N)	7664-41-7	-	19	460		ND		ND		ND		ND		340		ND		430		ND		ND		1800
Nitrite (as N)	14797-65-0	1000	20	ND		ND		ND		210														
Nitrate (as N)	14797-55-8	10000	10000	1700		2600		3800		2600		2600		2000		900		2000		2000		1900		2000
Nitrogen, Nitrate-Nitrite	C 005	10000	10000	-		-		-		-		-		-		-		-		-		-	-	
Nitrogen, Total Kjeldahl	7727-37-9	-	-	1500		ND		1300		1300		ND		1100		600		400		ND		1000		2900
Total Organic Carbon	7440-44-0	-	-	8500		2900		2700		3600		3200		4000		5000		3700		3600		3900		3900
Alkalinity, Total (CaCO3)	ALK	-	-	100000		130000		140000		190000		150000		150000		91000		170000		220000		220000		220000
Chemical Oxygen Demand	COD	-	-	28000		ND		81000		ND		ND		ND		ND								
Total Dissolved Solids	TDS	-	-	-		-		-		-		-		-		-		-		-		-	-	
Total Organic Halides (TOX)	TOX	-	-	13.7		16.1		45.6		60.1		27.1		22.6		11.1		25.5</						

Surface Water Sampling Results (DRAFT VERSION reflecting data received to date - may be revised or updated)				South Branch upstream	South Branch downstream																				
				9/17	9/24	9/24	10/1	10/1	10/8	10/8	6/12	6/14	6/21	6/24	6/24	6/27	6/30	6/30	7/6	7/6	7/9	7/9	7/12	7/24	
Analyte	Cas No.	MCL (ug/L)	Lowest Benchmark** (ug/L)	Dissolved Metals	Total Metals	Dissolved Metals	Total Metals	Dissolved Metals	Total Metals	Dissolved Metals	Dissolved Metals	Total Metals	Dissolved Metals	Total Metals	Dissolved Metals	Total Metals	Dissolved Metals	Total Metals	Dissolved Metals	Total Metals	Dissolved Metals	Total Metals	Dissolved Metals	Total Metals	
Aluminum	7429-90-5	200	87	ND	98	ND	240	ND	78	ND	-	ND	ND	200	ND	ND	470	ND	170	ND	440	ND	200	ND	93
Antimony	7440-36-0	6	5.6	ND	ND	ND	ND	ND	ND	-	ND	ND													
Arsenic	7440-38-2	10	0.02	ND	ND	ND	0.65	ND	ND	-	0.6	1.1	ND	ND	0.57	ND	ND	ND	ND	1.2	0.63	0.58	ND	0.73	
Barium	7440-39-3	2000	4	30	29	27	27	25	29	30	-	40	34	38	36	34.5	38	30	37	35	39	32	39	38	
Beryllium	7440-41-7	4	0.66	ND	ND	ND	ND	ND	ND	-	ND	ND													
Cadmium	7440-43-9	5	0.25	ND	ND	ND	ND	ND	ND	-	0.75	ND	ND												
Calcium	7440-70-2	-	116000	-	43000	-	28000	-	42000	-	-	-	-	-	-	-	49000	-	46000	-	54000	-	60000		
Chromium	7440-47-3	100	85	ND	ND	ND	0.57	ND	ND	ND	-	ND	ND												
Cobalt	7440-48-4	-	19	ND	ND	ND	0.53	ND	ND	-	6.2	2.7	2.7	2.5	1.6	1.7	1.2	1.3	1.1	1.3	0.91	1.2	1	1	
Copper	7440-50-8	1000	9	1.4	1.7	ND	1.8	ND	0.93	ND	-	36	10	11	10	7.1	6.7	5.2	4.9	4.4	4.9	3.6	4	3.6	3.6
Iron	7439-89-6	300	300	ND	210	ND	490	ND	300	ND	-	96	110	400	ND	69	820	ND	330	ND	790	93	380	ND	190
Lead	7439-92-1	5	2.5	ND	ND	ND	0.65	ND	ND	-	10	3.1	4.2	3.4	2.1	3.2	1.6	1.7	1.1	2.2	0.83	1.5	0.76	0.84	
Magnesium	7439-95-4	-	-	-	7900	-	6100	-	8100	-	-	-	-	-	-	-	-	10000	-	9500	-	12000	-	13000	
Manganese	7439-96-5	50	50	37	29	20	52	21	30	22	-	68	36	45	27	21	64	20	37	17	55	18	38	19	23
Mercury	7439-97-6	2	0.026	ND	ND	ND	ND	ND	ND	-	ND	ND													
Molybdenum	7439-98-7	-	73	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nickel	7440-02-0	-	52	0.73	ND	ND	0.75	ND	ND	-	2.6	1.6	1.5	1.4	1.2	1.5	0.9	1.1	0.97	1.5	0.85	0.99	0.86	1	
Potassium	7440-09-7	-	53000	14000	2700	2400	3400	3700	2700	2800	-	6700	4600	4200	4200	4000	3300	3300	3500	3200	4800	4500	3900	4100	6400
Selenium	7782-49-2	50	1	ND	ND	ND	ND	ND	ND	-	ND	ND													
Silver	7440-22-4	100	3.2	ND	ND	ND	ND	ND	ND	-	ND	ND													
Sodium	7440-23-5	-	680000	36000	8200	7800	7800	7900	9600	8800	-	21000	15000	17000	15000	14500	13000	13000	16000	14000	13000	12000	15000	16000	23000
Thallium	7440-28-0	2	0.24	ND	ND	ND	ND	ND	ND	-	ND	ND													
Zinc	7440-66-6	5000	120	11	24	ND	12	15	12	ND	-	150	60	50	56	38.5	35	35	30	28	27	22	24	27	
Sulfate	14808-79-8	250000	250000	-	11000	-	10000	-	12000	-	23000	21100	13800	21400	-	17300	22500	-	18000	-	14000	-	20000	-	27100
Chloride	16887-00-6	250000	230000	-	19000	-	18000	-	21000	-	-	-	-	-	-	-	-	27000	22000	-	28000	-	38700		
Phosphorus, Total (as P)	7723-14-0	-	-	ND	-	ND	-	ND	-	-	350	160	110	81	86	-	-	ND	270	-	53	-	ND		
Ortho-Phosphate (as P)	7723-14-0	-	-	ND	-	ND	-	ND	-	-	210	38	55	33	41	-	-	ND	240	-	ND	-	40		
Nitrogen, Ammonia (as N)	7664-41-7	-	19	ND	-	ND	-	ND	-	-	160	ND	ND	ND	100	-	-	ND	240	-	ND	-	ND		
Nitrite (as N)	14797-65-0	1000	20	ND	-	ND	-	ND	-	-	700	ND	120	ND	ND	-	-	ND	ND	-	ND	-	ND		
Nitrate (as N)	14797-55-8	10000	10000	-	2300	-	1700	-	2600	-	-	2600	2000	3000	2800	3300	-	2500	1800	-	2500	-	3600		
Nitrogen, Nitrate+Nitrite	C 005	10000	10000	-	-	-	-	-	-	-	3390	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nitrogen, Total Kjeldahl	7727-37-9	-	-	-	800	-	800	-	-	-	3100	2300	ND	1200	600	ND	600	ND	1100	-	ND	-	1200		
Total Organic Carbon	7440-44-0	-	-	-	2900	-	5200	-	-	-	6500	6000	8500	6000	6800	3100	-	2500	6600	-	2400	-	2000		
Alkalinity, Total (CaCO3)	ALK	-	-	-	110000	-	ND	-	100000	-	-	100000	160000	170000	150000	-	120000	120000	-	140000	-	180000			
Chemical Oxygen Demand	COD	-	-	-	ND	-	20000	-	ND	-	-	-	17000	ND	ND	ND									

Surface Water Sampling Results (DRAFT VERSION reflecting data received to date - may be revised or updated)				South Branch downstream																				
Analyte	Cas No.	MCL (ug/L)	Lowest Benchmark** (ug/L)	Dissolved Metals	Total Metals																			
Aluminum	7429-90-5	200	87	ND	120	ND	100	ND	120	ND	620	ND	150	ND	100	ND	79	ND	170	ND	260	ND	440	160
Antimony	7440-36-0	6	5.6	ND	ND	ND	ND	ND																
Arsenic	7440-38-2	10	0.02	ND	0.67	ND	ND	ND	ND	0.72	ND	0.51	ND	0.5	ND	ND	0.51	ND	ND	ND	0.65	ND	ND	
Barium	7440-39-3	2000	4	40	44	40	44	39	41	38	42	37	49	47	46	45	44	47	40	50	42	38	38	
Beryllium	7440-41-7	4	0.66	ND	ND	ND	ND	ND																
Cadmium	7440-43-9	5	0.25	ND	ND	ND	ND	ND																
Calcium	7440-70-2	-	116000	-	59000	-	55000	-	56000	-	54000	-	56000	-	59000	-	54000	-	57000	-	58000	-	44000	-
Chromium	7440-47-3	100	85	ND	1.1	ND	ND	ND	ND	ND														
Cobalt	7440-48-4	-	19	1	1.3	1.1	1.2	1	1.1	1	1.3	0.71	1.5	1.3	1.1	0.99	1.1	0.98	1.2	0.97	1.2	ND	1.3	1.1
Copper	7440-50-8	1000	9	2.9	4	3.7	3.6	3.2	3	2.3	3.6	2.3	3.6	3.5	3.3	3	3.1	2.5	3	2.3	3.3	2	3.9	2.4
Iron	7439-89-6	300	300	ND	240	ND	180	ND	180	ND	980	ND	250	ND	180	ND	140	ND	280	ND	320	ND	730	220
Lead	7439-92-1	5	2.5	ND	0.99	ND	0.78	ND	0.82	ND	2.3	ND	1.2	ND	0.71	ND	0.54	ND	0.82	ND	0.73	ND	1.4	ND
Magnesium	7439-95-4	-	-	-	14000	-	13000	-	14000	-	12000	-	14000	-	16000	-	14000	-	14000	-	14000	-	9300	-
Manganese	7439-96-5	50	50	14	30	18	25	14	23	13	77	15	34	15	25	14	26	19	31	16	34	13	41	26
Mercury	7439-97-6	2	0.026	ND	ND	ND	ND	ND																
Molybdenum	7439-98-7	-	73	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1.4	0.97	1.2	0.85	0.92	0.71	0.7
Nickel	7440-02-0	-	52	0.81	1.2	ND	1.1	0.96	1.1	0.82	1.6	0.87	1.3	1.4	1.2	1.1	1.2	ND	1.3	1.1	0.74	1.5	1.1	
Potassium	7440-09-7	-	53000	5400	6700	5700	8100	7600	8700	8100	7300	7500	7400	6800	9100	7400	7900	7600	7700	7600	7900	6400	6200	6000
Selenium	7782-49-2	50	1	ND	ND	ND	ND	ND																
Silver	7440-22-4	100	3.2	ND	ND	ND	ND	ND																
Sodium	7440-23-5	-	680000	18000	19000	21000	28000	26000	28000	25000	26000	27000	27000	27000	34000	29000	26000	25000	25000	26000	26000	22000	17000	16000
Thallium	7440-28-0	2	0.24	ND	ND	ND	ND	ND																
Zinc	7440-66-6	5000	120	16	29	22	22	18	16	14	19	13	20	18	17	13	15	12	29	ND	20	19		
Sulfate	14808-79-8	250000	250000		25000		25000		24000		20000		25000		24000		24000		24000		25000		20000	
Chloride	16887-00-6	250000	230000		35000		38000		38000		42000		38000		39000		38000		37000		38000		27000	
Phosphorus, Total (as P)	7723-14-0	-	-		ND		74		160		96		53		ND		ND		63		ND		79	
Ortho-Phosphate (as P)	7723-14-0	-	-		ND		81		150		74		51		ND		ND		57		ND		62	
Nitrogen, Ammonia (as N)	7664-41-7	-	19		ND		ND		ND															
Nitrite (as N)	14797-65-0	1000	20		ND		ND		ND															
Nitrate (as N)	14797-55-8	10000	10000		2500		2400		2000		1900		2100		2000		1900		2100		2500		1700	
Nitrogen, Nitrate+Nitrite	C 005	10000	10000		-		-		-		-		-		-		-		-		-		-	
Nitrogen, Total Kjeldahl	7727-37-9	-	-		ND		ND		400		ND		ND		ND		800		1200		800		700	
Total Organic Carbon	7440-44-0	-	-		2600		2300		2500		3100		1800		1900		2100		2100		2100		4200	
Alkalinity, Total (CaCO3)	ALK	-	-		190000		130000		160000		160000		150000		190000		440000		170000		170000		150000	
Chemical Oxygen Demand	COD	-	-		ND		ND		ND		32000		30000		ND		ND		ND		ND		ND	
Total Dissolved Solids	TDS	-	-		-		-		-		-		-		-		-		-		-		-	
Total Organic Halides (TOX)	TOX	-	-		26.6		24.8		14		15.6		ND		17.8		7.1		ND		12		23.8	
Temperature (°C)		-	-		23.61		19.85		26.85		23.08		21.49		21.07		21.75		19.07		16.8		16.5	
pH (Std units)	C-006	6.5	6.5		7.82		7.92		8.06		8.34		8.42		8.27		7.8		7.08		8.67		7.12	
ORP (mV)		-	-		259		227		216															

Surface Water Sampling Results (DRAFT VERSION reflecting data received to date - may be revised or updated)				South Branch downstream	South Branch downstream	NOMA Intake	NOMA Intake	NOMA Intake	NOMA Intake	NOMA Intake	NOMA Intake	NOMA Intake	NOMA Intake	NOMA Intake	NOMA Intake	NOMA Intake	NOMA Intake	NOMA Intake	NOMA Intake	NOMA Intake	NOMA Intake	NOMA Intake		
				10/8	10/8	6/12	6/14	6/21	6/24	6/24	6/27	6/30	6/30	7/6	7/6	7/9	7/9	7/12	7/12	7/24	7/24	7/30	7/30	
Analyte	Cas No.	MCL (ug/L)	Lowest Benchmark** (ug/L)	Total Metals	Dissolved Metals	Dissolved Metals	Dissolved Metals	Total Metals	Dissolved Metals															
Aluminum	7429-90-5	200	87	130	ND	ND	ND	220	ND	160	ND	130	ND	705	ND to 59	170	ND	170	ND	140	ND	160	ND	
Antimony	7440-36-0	6	5.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Arsenic	7440-38-2	10	0.02	ND	ND	0.88	0.735	1.1	ND	ND	ND	ND	ND	1.2	0.82	0.56	ND	0.69	ND	0.665	ND	ND	ND	
Barium	7440-39-3	2000	4	43	43	38	38.5	31	37	33	31	36	34	34	25.5	39	37	40	40	42	40	43	38	
Beryllium	7440-41-7	4	0.66	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Cadmium	7440-43-9	5	0.25	ND	ND	0.81	0.775	ND	ND															
Calcium	7440-70-2	-	116000	61000	-	-	-	-	-	-	-	48000	-	32000	-	51000	-	56000	-	58500	-	55000	-	
Chromium	7440-47-3	100	85	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Cobalt	7440-48-4	-	19	0.99	ND	9.2	6.75	2.2	1.8	1.8	1.35	1.2	1.1	1.2	1	1.1	0.585	1.2	0.91	1.2	1.1	1.2	1.05	
Copper	7440-50-8	1000	9	2.4	2	57	37.5	7.9	7.4	6.7	5.45	5.2	4.5	4.5	4	4.8	3.2	3.9	3.2	5	3.2	3.65	3.15	
Iron	7439-89-6	300	300	240	ND	150	110	140	360	ND	72	290	ND	270	ND	980	110	330	ND	300	ND	240	ND	
Lead	7439-92-1	5	2.5	0.59	ND	15	11	2.4	2.8	2.1	1.55	1.8	1.3	1.4	0.91	2.65	0.615	1.4	0.63	1.1	ND	0.865	ND	
Magnesium	7439-95-4	-	-	13000	-	-	-	-	-	-	-	11000	-	6550	-	12000	-	13000	-	14500	-	13000	-	
Manganese	7439-96-5	50	50	24	12	200	110	35	51	35	26	34	22	37	22	53.5	15	48	27	45	28	50.5	39	
Mercury	7439-97-6	2	0.026	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Molybdenum	7439-98-7	-	73	0.83	0.88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nickel	7440-02-0	-	52	1.1	ND	2.4	2.25	1.4	1.4	1.1	1.1	0.84	1.1	0.92	1.7	0.825	1	0.82	1.2	0.92	1.1	ND to 1	1	1.2
Potassium	7440-09-7	-	53000	5600	5600	7800	6950	4200	4300	4100	3400	3400	3800	3400	4750	4450	4400	4300	5600	5900	6700	5750	7000	
Selenium	7782-49-2	50	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Silver	7440-22-4	100	3.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Sodium	7440-23-5	-	680000	21000	20000	23000	21500	14000	18000	17000	14500	14000	13000	17000	15000	9650	9500	16000	16000	22000	22000	22500	23000	24000
Thallium	7440-28-0	2	0.24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zinc	7440-66-6	5000	120	14	21	250	165	44	37	41	33	28	26	28	25	28.5	20	26	19	28	17	25.5	24	18
Sulfate	14808-79-8	250000	250000	24000	-	21200	20250	13300	15800	-	16100	22200	-	19000	-	8400	-	20000	-	26600	-	23000	-	
Chloride	16887-00-6	250000	230000	32000	-	-	-	-	-	-	-	-	28000	-	16000	-	29000	-	37600	-	37000	-	36000	-
Phosphorus, Total (as P)	7723-14-0	-	-	ND	-	540	355	170	120	-	81	55	-	56	-	190	-	59	-	50	-	61	-	
Ortho-Phosphate (as P)	7723-14-0	-	-	ND	-	-	205	47	72	-	47	34	-	ND	-	145	-	ND	-	37	-	57.5	-	
Nitrogen, Ammonia (as N)	7664-41-7	-	19	ND	-	-	-	150	140	-	ND	110	-	ND	-	285	-	ND	-	ND	-	ND	-	
Nitrite (as N)	14797-65-0	1000	20	ND	-	-	-	ND	140	-	ND	ND	-											
Nitrate (as N)	14797-55-8	10000	10000	2400	-	-	-	2450	2100	2700	-	2800	3400	-	2700	-	1200	-	2500	-	3400	-	2200	-
Nitrogen, Nitrate-Nitrite	C 005	10000	10000	-	-	3190	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nitrogen, Total Kjeldahl	7727-37-9	-	-	-	-	2300	2350	500	900	-	400	ND	-	ND	-	1400	-	400	-	1100	-	ND to 500	-	
Total Organic Carbon	7440-44-0	-	-	-	-	7000	6400	9500	7500	-	2400	3100	-	2700	-	8350	-	2600	-	2600	-	2550	-	
Alkalinity, Total (CaCO3)	ALK	-	-	140000	-	-	-	120000	150000	-	160000	140000	-	120000	-	91500	-	150000	-	170000	-	180000	-	
Chemical Oxygen Demand	COD	-	-	ND	-	-	-	17000	21000	-	24000	22000	-	ND	-	25500	-	ND	-	ND	-	ND	-	
Total Dissolved Solids	TDS	-	-	-</td																				

Surface Water Sampling Results (DRAFT VERSION reflecting data received to date - may be revised or updated)				NOMA Intake	NOMA Intake	NOMA Intake	Cone newago upstream	Cone newago downstream	Cone newago upstream	Cone newago downstream																
				8/13	8/13	8/20	8/20	8/27	8/27	9/3	9/3	9/10	9/10	9/17	9/17	9/24	9/24	10/1	10/1	10/8	10/8	6/12	6/12	6/14	6/14	
Analyte	Cas No.	MCL (ug/L)	Lowest Benchmark** (ug/L)	Total Metals	Dissolved Metals	Dissolved Metals	Dissolved Metals	Dissolved Metals	Dissolved Metals	Dissolved Metals																
Aluminum	7429-90-5	200	87	165	ND	180	74	135.5	ND	130	ND	98	ND	120	70	82	ND	235	ND	366	ND	-	ND	ND	ND	
Antimony	7440-36-0	6	5.6	ND	ND	ND	ND	-	ND	ND	ND	ND														
Arsenic	7440-38-2	10	0.02	ND to 0.61	ND	0.65	ND	0.575	ND to 0.53	0.58	ND	ND	ND	ND	ND	ND	0.755	ND	ND to 0.59	ND	-	1.1	1	0.98		
Barium	7440-39-3	2000	4	41.5	35.5	36	36	45.5	44.5	45	43	45	45	42	37	48	41	36	34	43.5	40.5	-	37	38	37	
Beryllium	7440-41-7	4	0.66	ND	ND	ND	ND	ND	-	ND	ND	ND														
Cadmium	7440-43-9	5	0.25	ND	ND	ND	ND	-	ND	ND	ND	ND														
Calcium	7440-70-2	-	116000	51500	-	46000	-	56000	-	50000	-	51000	-	55000	-	53000	-	39000	-	57000	-	-	-	-	-	
Chromium	7440-47-3	100	85	ND to 0.64	ND	0.54	ND	ND	ND	0.55	ND	ND	ND	0.56	ND	ND	ND	0.635	ND	ND to 1.2	ND	-	ND	ND	ND	
Cobalt	7440-48-4	-	19	1.05	0.9	0.96	0.87	1.4	1.1	1.1	1	1.1	1.1	1.1	0.96	0.96	1	1.05	ND	1.12	ND	-	7.4	ND	3	
Copper	7440-50-8	1000	9	3.25	2.25	3.1	2.9	3.55	3.3	3	2.7	3	2.3	2.8	2.6	2.3	1.9	3.25	2.05	2.75	1.55	-	47	1.3	14	
Iron	7439-89-6	300	300	185	ND	280	82	230	ND	230	ND	160	ND	200	71	120	ND	360	ND	780	ND	-	150	78	80	
Lead	7439-92-1	5	2.5	0.605	ND	0.8	ND	0.895	ND	0.76	ND	0.56	ND	0.64	0.52	ND	ND	0.93	ND	ND to 2.1	ND	-	9.4	ND	4	
Magnesium	7439-95-4	-	-	13000	-	11000	-	14500	-	13000	-	13000	-	13000	-	12000	-	8850	-	12000	-	-	-	-	-	
Manganese	7439-96-5	50	50	33	22	50	43	45.5	32	43	30	43	33	42	32	33	26	40	18.5	65	22	-	230	22	130	
Mercury	7439-97-6	2	0.026	ND	ND	ND	ND	ND	-	ND	ND	ND														
Molybdenum	7439-98-7	-	73	-	-	-	-	-	-	-	-	-	-	1.4	1.9	1.1	1.2	1	1.6	1.4	0.895	0.59	0.64	-	-	-
Nickel	7440-02-0	-	52	1.25	0.78	1.2	1	1.3	1.3	1.2	1.1	1.3	ND	1.2	1.2	1.1	0.88	1.25	ND	1.3	ND	-	1.8	ND	1.3	
Potassium	7440-09-7	-	53000	7950	7300	7200	7200	7050	6350	7200	7000	8300	8200	7200	6800	9300	8400	6650	6350	5900	5850	-	6900	2900	6100	
Selenium	7782-49-2	50	1	ND	ND	ND	ND	ND	-	ND	ND	ND														
Silver	7440-22-4	100	3.2	ND	ND	ND	ND	ND	-	ND	ND	ND														
Sodium	7440-23-5	-	680000	25000	22500	23000	25000	26500	26500	28000	28000	26000	26000	25000	23000	30000	27000	15500	15500	22000	21500	-	19000	13000	19000	
Thallium	7440-28-0	2	0.24	ND	ND	ND	0.51	ND	ND	ND	ND	ND	-	ND	ND	ND										
Zinc	7440-66-6	5000	120	15	15.5	15	15	19	17	19	18	15	15	20	22	29	ND	16.5	14.5	17.5	ND	-	210	11	71	
Sulfate	14808-79-8	250000	250000	21000	-	20000	-	24500	-	24000	-	24000	-	23000	-	25000	-	19000	-	22500	-	15400	18400	13700	17600	
Chloride	16887-00-6	250000	230000	34000	-	35000	-	37500	-	38000	-	39000	-	36000	-	42000	-	25000	-	34500	-	-	-	-	-	
Phosphorus, Total (as P)	7723-14-0	-	-	88.5	-	90	-	56	-	59	-	58	-	73	-	57	-	110	-	ND	-	610	81	280		
Ortho-Phosphate (as P)	7723-14-0	-	-	77.5	-	73	-	55	-	ND	-	50	-	54	-	ND	-	93	-	ND	-	-	61	200		
Nitrogen, Ammonia (as N)	7664-41-7	-	19	ND	-	ND	-	ND	-	-	-	-														
Nitrite (as N)	14797-65-0	1000	20	ND	-	ND	-	ND	-	-	ND	ND														
Nitrate (as N)	14797-55-8	10000	10000	1800	-	1500	-	1950	-	1900	-	1600	-	1900	-	2100	-	1500	-	2350	-	-	-	800	1900	
Nitrogen, Nitrate+Nitrite	C 005	10000	10000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	750	2300	-	-		
Nitrogen, Total Kjeldahl	7727-37-9	-	-	ND	-	ND	-	ND	-	ND	-	ND	-	1400	-	1200	-	1100	-	750	-	400	1800	4500	6800	
Total Organic Carbon	7440-44-0	-	-	2800	-	2500	-	2000	-	2300	-	2500	-	2300	-	2900	-	5400	-	-	4700	7500	5200	6000		
Alkalinity, Total (CaCO3)	ALK	-																								